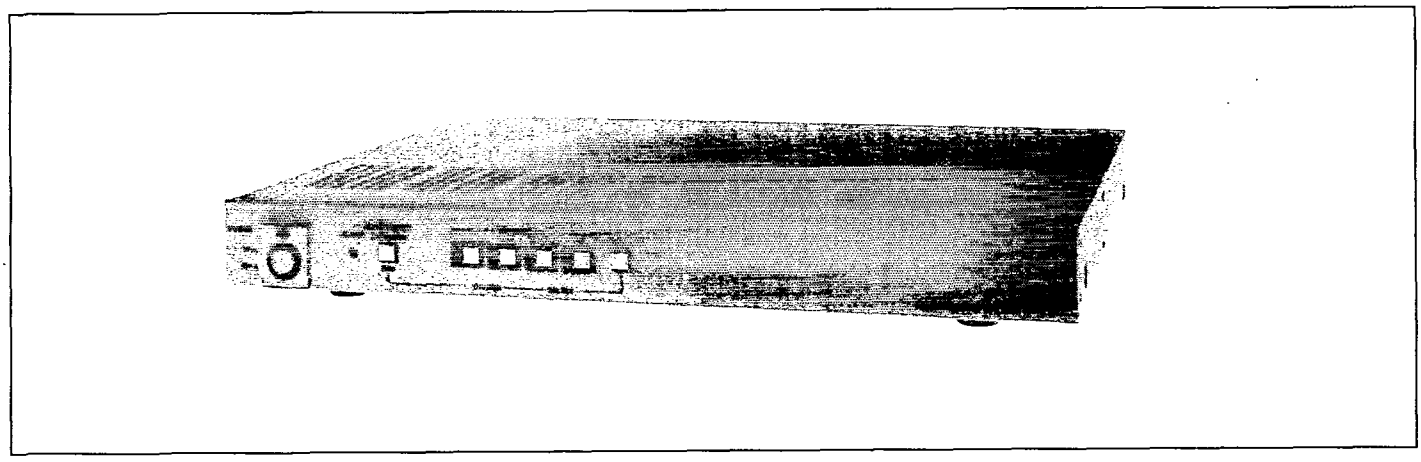
ORDER NO.AVS9807112C8

Service Manual

Quad Unit

WJ-MS424



SPECIFICATIONS

Video Input :	2:1 interlace, composite 1V [p-p] 75 Ω, auto termination or loop-through, black and white or colour video signal x 4 (Each video signal should be synchronized vertically for vertical interval switching. Does not have to be synchronized in case vertical interval switching is not required.)
Video Output :	Video Output x 1, composite, 1V [p-p] 75 Ω, colour or black and white video signal with composite sync and burst signal.
Title :	Up to 8 characters per window
Alarm Input :	One per 4 video inputs (max. DC 12V and a make-contact for ground)
Alarm Output :	One (max. DC 24V, 100mA, open collector circuit)
Alarm Time :	Adjustable approx. 1s to 30s, 1, 2, 3, 4, 5 min. or EXT
Recover Input :	One (max. DC 12V and a make-contact for ground)
Auto Reset Time :	Adjustable approx. 1s to 30s, 1, 2, 3, 4, 5 min. or OFF
Ambient Operating Temperature :	–10°C to +50°C (14°F to 122°F)
Power Source and Power Consumption:	220 - 240V AC, 50Hz, 14W
Dimensions :	420 (W) x 44 (H) x 350 (D) mm [16-1/2" (W) x 1-3/4" (H) x 13-3/4" (D)]
Weight :	3.6 kg (7.9 lbs.)

Weight and Dimensions shown above are approximate.
Specifications are subject to change without notice.

Panasonic

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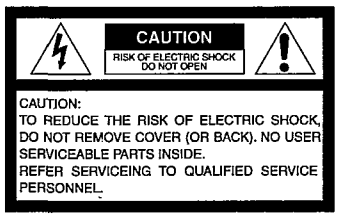
⚠ WARNING

This service information is designed for experienced repair technicians only and is not designed for use by the general public.
It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product.
Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.



This symbol warns the user that uninsuland voltage within the unit may have sufficient magnitude to cause electric shock. Therefore, it is dangerous to make any kind of contact with any inside part of this unit.

This symbol alerts the user that impotant literature concerning the operation and maintenance of this has been included. Therefore, it should be read carefully in order to avoid

IMPORTANT SAFETY NOTICE

There are special components used in this equipment which are important for safety. These parts are indicated by the ⚠ mark on the schematic diagram and the replacement parts list. It is essential that these critical parts should be replaced with manufacturer's specified parts to prevent shock, fire, or other hazards.
Do not modify the original design without permission of manufacture.

STANDARD ACCESSORY

Rack Mounting Brackets .....1 set
Rack Mounting Bracket Fixing Screws .....8 pcs
Switch Protector .....1 pc

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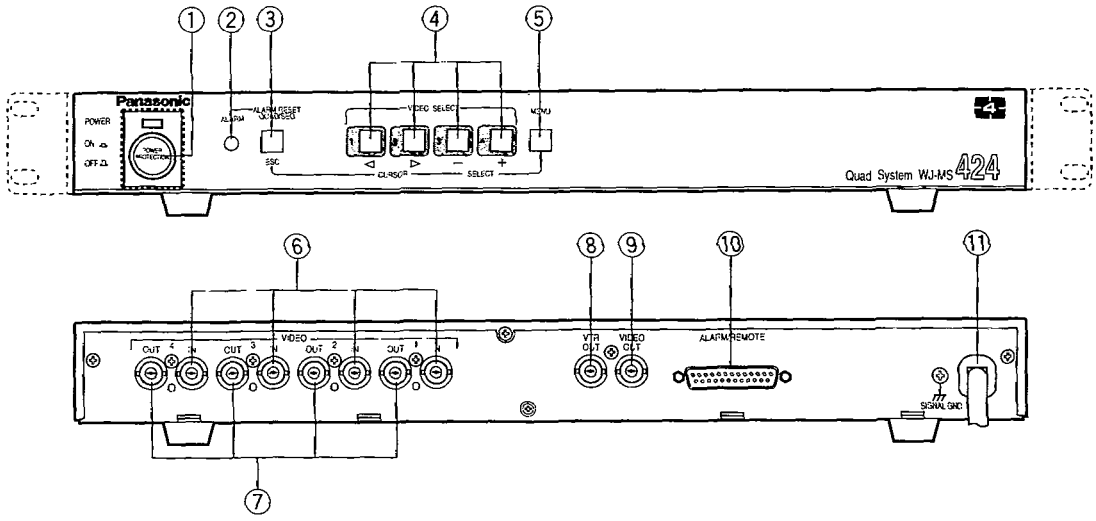
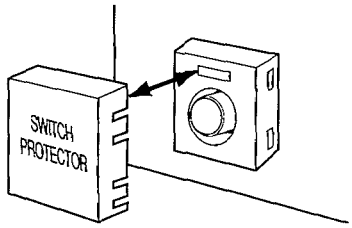
MAJOR OPERATING CONTROLS AND THEIR FUNCTIONS



1. **Power ON/OFF Switch (POWER)**
   This switch turns the power of this unit on or off. The POWER indicator lights when the power of this unit is on.
   Switch Protector (Standard Accessory)
   To prevent that the power of this unit is turned off accidentally, install the supplied switch protector as shown below.



2. **Alarm LED (ALARM)**
   This LED flashes while the alarm signal is received.
   It changes to steady light when the alarm is reset automatically.
   To turn the flashing LED off, press the ALARM RESET/QUAD/SEQ button.

3. **Alarm Reset/Quad/Sequence/Escape Button (ALARM RESET/QUAD/SEQ/ESC)**
   This button has different functions in different modes, as described below.
   - **ALARM RESET button**
     When an alarm signal is received, this button works as the ALARM RESET button.
     Pressing this button in an alarm situation cancels the alarm mode with the following results:
     1. The alarm LED stops flashing.
     2. The alarm output is stopped.
     3. The alarm buzzer stops beeping.
     4. The video loss caution message on the monitor screen disappears and the screen returns to the camera picture.
   - **QUAD button**
     When QUAD is selected for VIDEO OUT on the SYSTEM SETUP menu, this button works as the QUAD button.
     Pressing this button displays the quad picture on the monitor screen.
   - **SEQ button**
     When SEQ is selected for VIDEO OUT on the SYSTEM SETUP menu, this button works as the SEQ button.
     Pressing this button displays the pictures on the monitor screen in the sequential order and with the dwell time set on the SEQ SETUP menu.
   - **ESC button**
     When the setup menu (SYSTEM SETUP, SEQ SETUP, TITLE SETUP, TITLE SET or TITLE POSI) is displayed on the monitor screen, this button works as the ESC button.
     Pressing this button returns the current setup menu to the previous setup menu.

4. **VIDEO SELECT (1, 2, 3, 4)/CURSOR (◄, ►)/SELECT(–, +) Buttons**
   These buttons select the video signal or move the cursor on the setup menus.
   - **VIDEO SELECT(1, 2, 3, 4) buttons**
     When the setup menu is not displayed, these buttons work as VIDEO SELECT buttons.
     Pressing one of these buttons selects a channel to be displayed in single picture mode.
   - **CURSOR (◄, ►)/SELECT(–, +) buttons**
     When the setup menu is displayed, these buttons work as CURSOR (◄, ►)/SELECT (–, +) buttons.
     Pressing these buttons moves the cursor or selects a mode or a parameter.

◄ **button:** This button moves the cursor to the left or selects an item on the setup menus.
► **button:** This button moves the cursor to the right or selects an item on the setup menus.
– **button:** This button selects a character or a parameter on the setup menus.
+ **button:** This button selects a character or a parameter on the setup menus.

5. **Menu Button (MENU)**
Pressing this button for approx. 2 seconds displays the setup menus. Pressing it again for approx. 1 second cancels the display of the setup menus.

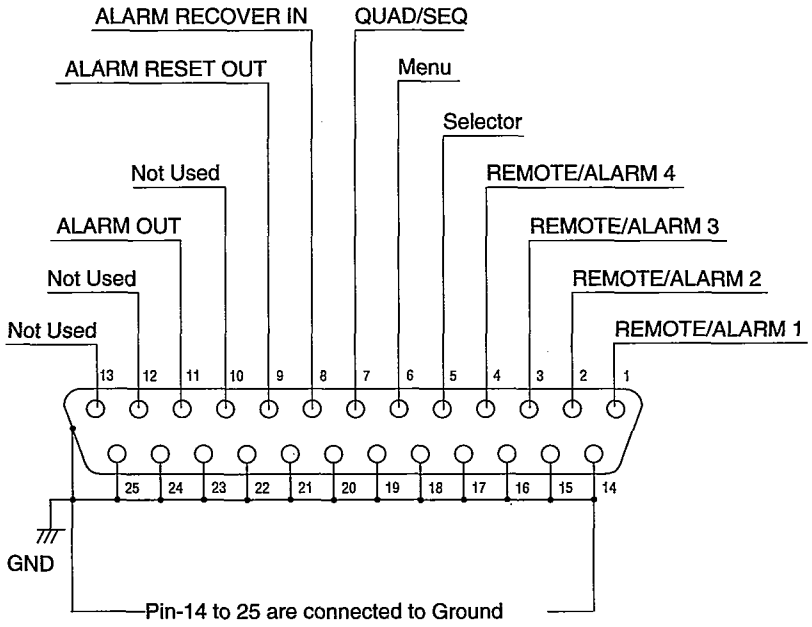
6. **Video input Connector (VIDEO IN 1, 2, 3, 4)**
These connectors receive a composite video signal.
They are automatically terminated.
Notes:
- The input signals must meet the CCIR B/W video signal standard, if the video inputs of this unit are to be synchronized.
- If the input signals have a high jitter content, as in the case of a VTR playback picture, it may not be possible to synchronize this unit.

7. **Video Output Connectors (VIDEO OUT 1, 2, 3, 4)**
The video input signals connected to the VIDEO IN connector are looped through to these connectors.
Connectors a coaxial cable to these connectors cancels the termination.

8. **VTR Output Connector (VTR OUT)**
The video signal for the quad picture mode is always provided at this connector. By connecting it to the VIDEO IN connector of the time lapse VTR, you can record the quad picture.

9. **Video Output Connector (VIDEO OUT)**
The video signal selected by the QUAD/SEQ button (quad picture) or the VIDEO SELECT button (single picture) is output from this connector.

10. **Alarm/Remote Control Connector (ALARM/REMOTE)**
This connector accepts the alarm signal from associated alarm sensor units and the remote control signal from the external equipment.



Caution: The input voltage should be DC 24V or less for ALARM IN.

11. **Power Cord**

ADJUSTMENT PROCEDURE

1. Test Equipment Required

- The following test equipments are required for adjustment of the Quad Unit WJ-MS424.
- Oscilloscope
- Frequency Counter
- Digital Voltmeter
- Waveform Monitor
- Vectorscope
- Underscanned Colour Video Monitor
- Video signal Generator
  - Colour Bar signal (set-up 7.5%)
  - Ramp signal (without Carrier)
  - Sweep signal or Multi Burst signal (more than 10 MHz)

2. Disassembling Procedure for Adjustment

- Referring to Fig. 2-1, remove six screws that secure the Upper Cover and remove the Upper Cover.

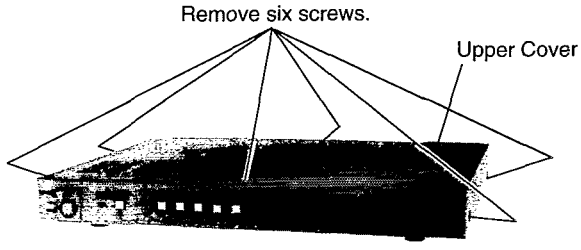


Fig. 2-1

3. Connection and Setting Up for Adjustment

3.1. Connection

- The Fig. 3-1 shows the connection diagram for the adjustment procedure.

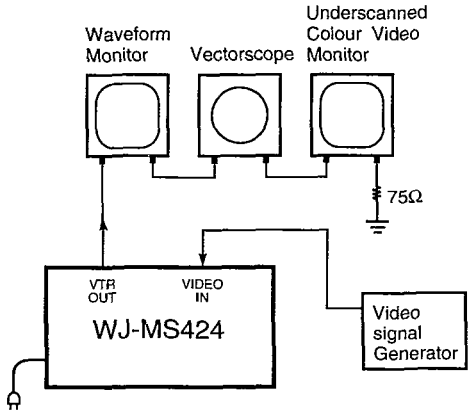


Fig. 3-1

- Connect the Underscanned Colour Video Monitor through the Waveform Monitor and Vectorscope to the VTR Output Connector on the Rear Panel of the WJ-MS424 using the coaxial cables.
- Terminate the input terminal of the Underscanned Colour Video Monitor with 75 Ω.
- Connect the Signal Generator to the Video Input Connector 1 using the coaxial cable.
- Connect the probe of the Digital Voltmeter, Oscilloscope or Frequency Counter at the desired Test Point in each adjustment step.

3.2. Initial Setting for Adjustment

- Before start to adjust should be done with this Initial Setting as follows:
- Turn OFF the Power ON/OFF Switch.
- Turn ON the Power ON/OFF Switch while pressing the CURSOR (►) button, the SELECT (+) button and Menu Button simultaneously, Buzzer is beeped and enter the Initial Setting Mode.
- Press the Menu button more than 2 seconds, Confirm that the Initial Setting MAIN Menu as shown in Table 3-1 will be displayed.

```
        **  MAIN  **

SYSTEM SETUP *
ALARM BUZZER          2SEC
ALARM OUT             2SEC
ALARM AUTO RESET OFF
SEQ SETUP *
TITLE SETUP *
```

Table 3-1

- Move the cursor to SYSTEM SETUP on the MAIN Menu.
- Press one of the SELECT (–) or (+) button, Confirm that the Initial Setting SYSTEM SETUP Menu as shown in Table 3-2 will be displayed.

```
      ** SYSTEM SETUP **

BORDER                ON
VIDEO OUT             QUAD
AUTO SKIP             OFF
VIDEO LOSS            ON
```

Table 3-2

- Press the ESC button to the MAIN Menu.
- Move the cursor to SEQ SET on the MAIN Menu.
- Press one of the SELECT (–) or (+) button, Confirm that the Initial Setting SEQ SETUP Menu as shown in Table 3-3 will be displayed.

```
** SEQ SETUP **

1:  1CH   2SEC
2:  2CH   2SEC
3:  3CH   2SEC
4:  4CH   2SEC
5:  OFF
6:  OFF
7:  OFF
8:  OFF
```

Table 3-3

- Press the ESC button to the MAIN Menu.
- Move the cursor to TITLE SETUP on the MAIN Menu.
- Press one of the SELECT (–) or (+) button, Confirm that the Initial Setting TITLE SETUP Menu as shown in Table 3-4 will be displayed.

```
** TITLE SETUP **

CAM TITLE        ON
TITLE SET *
TITLE POSI *
ALARM TITLE      ON
```

Table 3-4

- Press the ESC button to the MAIN Menu.
- After confirmation of the Menus turn OFF the Power ON/OFF Switch.

4. Adjustment Procedure

- Refer to the Location of the Test Points and Adjusting Controls on the page 9.

(1). FSC Frequency Adjustment

Test Point: **TP610 (FSC)** **Main Board**
Adjust: **CT601 (FSC)** **Main Board**

- Turn OFF the Power ON/OFF Switch.
- Disconnect all input signals from the WJ-MS424.
- Connect the Frequency Counter to TP610 and TP611 (GND).
- Turn ON the Power ON/OFF Switch while pressing the CURSOR (►) button, SELECT (–) button and Menu button simultaneously.
- Enter the Adjustment Mode A, and display the Adjustment as shown in Fig. 4-1.

```
      CA-R   CA-B   PED
1CH    9      9      9
2CH    9      9      9
3CH    9      9      9
4CH    9      9      9
```

Fig. 4-1

- Adjust CT601 to obtain 13.500000 MHz ± 18 Hz.

(2). Encoder Section Adjustment

Test Point: **VTR Output Connector** **Main Board**
Adjusts: **VR801 (BURST)** **Main Board**
VR802 (BORDER) **Main Board**

- By pressing the Menu button in Adjustment Mode A, enter the Adjustment Mode B and Alarm LED on the Front Panel is lit, and display the Adjustment Menu B as shown in Fig. 4-2.

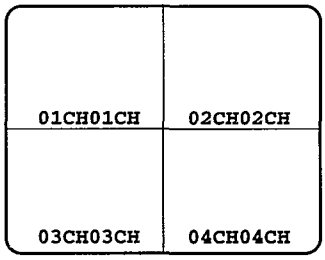


Fig. 4-2

- Connect the terminated Oscilloscope with 75Ω to the VTR Output Connector on the Rear Panel.
- Adjust VR801 so that the Burst signal level becomes 300 ± 15 mV as shown in Fig. 4-3.
- Adjust VR802 so that the Border signal level becomes 700 ± 15 mV as shown in Fig. 4-3.
- Confirm that the Sync signal level becomes 300 ± 30 mV as shown in Fig. 4-3.

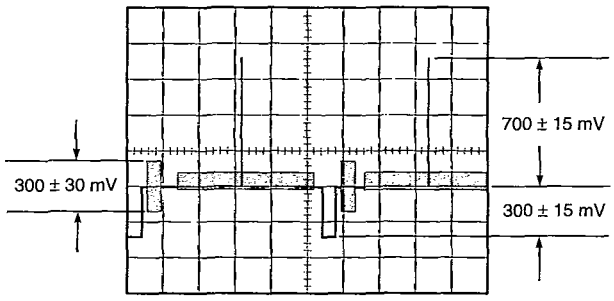


Fig. 4-3

- Press the Menu button to return to the Adjustment Mode A.

(3). G/L PLL DC Level Adjustment

Test Points:	**TP601 (PLL DC-1)**	**Main Board**
	TP602 (PLL DC-2)	**Main Board**
	TP606 (PLL DC-3)	**Main Board**
	TP607 (PLL DC-4)	**Main Board**
Adjusts:	**L606 (PLL DC-1)**	**Main Board**
	L607 (PLL DC-2)	**Main Board**
	L608 (PLL DC-3)	**Main Board**
	L609 (PLL DC-4)	**Main Board**

- Press the VIDEO SELECT button 1.
- Supply the Ramp signal to the Video Input Connector 1 on the Rear Panel.
- Connect the Digtal Voltmeter to TP601.
- Adjust L606 to obtain 2.0 ± 0.3 V DC.
- Press the VIDEO SELECT button 2.
- Change the Connection of Digital Voltmeter to TP602.
- Adjust L607 to obtain 2.0 ± 0.3 V DC.
- Press the VIDEO SELECT button 3.
- Change the Connection of Digital Voltmeter to TP606.
- Adjust L608 to obtain 2.0 ± 0.3 V DC.
- Press the VIDEO SELECT button 4.
- Change the Connection of Digital Voltmeter to TP607.
- Adjust L609 to obtain 2.0 ± 0.3 V DC.

(4). Decoder Section Adjustment

Test Point:	**VTR Output Connector**	**Rear Panel**
Adjusts:	**VR101 (Y LEVEL-1)**	**Main Board**
	VR103 (C GAIN-1)	**Main Board**
	VR104 (C PHASE-1)	**Main Board**
	VR201 (Y LEVEL-2)	**Main Board**
	VR203 (C GAIN-2)	**Main Board**
	VR204 (C PHASE-2)	**Main Board**
	VR301 (Y LEVEL-3)	**Main Board**
	VR303 (C GAIN-3)	**Main Board**
	VR304 (C PHASE-3)	**Main Board**
	VR401 (Y LEVEL-4)	**Main Board**
	VR403 (C GAIN-4)	**Main Board**
	VR404 (C PHASE-4)	**Main Board**
	SELECT (+) or (–) button	

- Turn OFF the Power ON/OFF Switch.
- Turn ON the Power ON/OFF Switch while pressing the CURSOR (►) button, SELECT (–) button and Menu button simultaneously.
- Enter the Adjustment Mode A and display the Adjustment Menu as shown in Fig. 4-4.

	CA-R	CA-B	PED
1CH	9	9	9
2CH	9	9	9
3CH	9	9	9
4CH	9	9	9

Fig. 4-4

- Disconnect the Video signal Generator from all Video Input Connectors.
- Supply the Ramp signal to the Video Input Connector 1 on the Rear Panel.
- Set the Gain Control of the Vectorscope to the maximum.
- Press CURSOR (◄) or (►) button to select the CA-R Carrier Balance (R-Y) position of 1 CH as shown in Fig. 4-5.

	CA-R	CA-B	PED
1CH	9	9	9
2CH	9	9	9
3CH	9	9	9
4CH	9	9	9

Fig. 4-5

- Adjust SELECT (+) or (–) button so that the vector positions at the center of the Vectorscope as shown in Fig. 4-6.
- Press CURSOR (◄) or (►) button to select the CA-B Carrier Balance (B-Y) position of 1 CH as shown in Fig. 4-5.
- Adjust SELECT (+) or (–) button so that the vector positions at the center of the Vectorscope as shown in Fig.4-6.

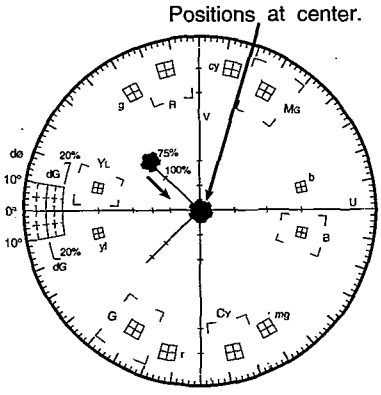


Fig. 4-6

- Set the Waveform Monitor to the Chroma mode.
- Observing the Waveform Monitor, confirm that the Chroma Pedestal level is less than 35 mV as shown in Fig. 4-7.

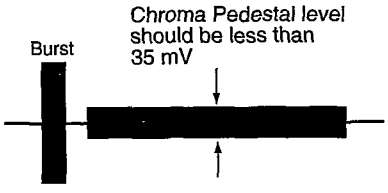


Fig. 4-7

- Press CURSOR (◄) or (►) button to select the PED (Y Pedestal) position of 1CH as shown in Fig. 4-5.
- Connect the terminated Oscilloscope with 75Ω to the VTR Output Connector.
- Adjust SELECT (+) or (–) button so that the Luminance Pedestal level becomes 0^{+7}_{-0}mV as shown in Fig. 4-8.
- Adjust VR101 so that the Luminance level becomes 700 ± 14 mV as shown in Fig. 4-8.

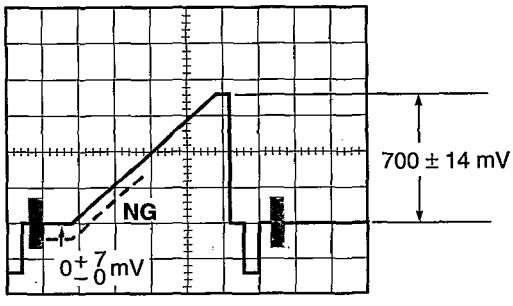
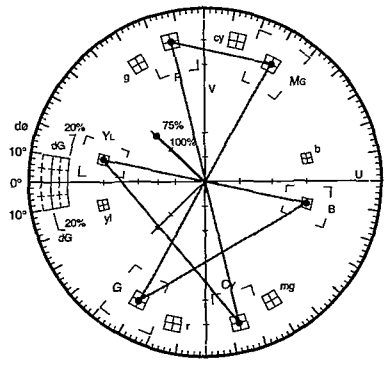


Fig. 4-8

- Supply the Colour Bar signal to the Video Input Connector 1 on the Rear Panel.
- Adjust VR103 so that the Chroma vectors position at their respective boxes as shown in Fig. 4-9.
- Adjust VR104 so that the Chroma phase becomes within specifications as shown in Fig. 4-9.



	Red	Yellow	Cyan
Gain	220±7%	155±10%	220±12%
Phase	103±5°	167±8°	283±7°

Fig. 4-9

- Repeat adjusting VR103 and VR104 so that the Chroma gain and phase become satisfactory.
- After adjusting press the ESC button.
- Supply the Ramp signal to the Video Input Connector 2 on the Rear Panel.
- Set the Gain Control of the Vectorscope to maximum.
- Press CURSOR (◄) or (►) button to select the CA-R Carrier Balance (R-Y) position of 2 CH as shown in Fig. 4-10.

	CA-R	CA-B	PED
1CH	9	9	9
2CH	9	9	9
3CH	9	9	9
4CH	9	9	9

Fig. 4-10

- Adjust SELECT (+) or (–) button so that the vector positions at the center of the Vectorscope as shown in Fig. 4-11.
- Press CURSOR (◄) or (►) button to select the CA-B Carrier Balance (B-Y) position of 2 CH as shown in Fig. 4-10.
- Adjust SELECT (+) or (–) button so that the vector positions at the center of the Vectorscope as shown in Fig.4-11.

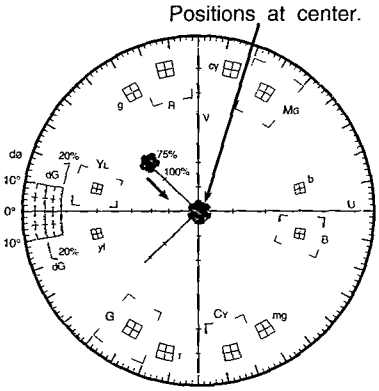


Fig. 4-11

- Set the Waveform Monitor to the Chroma mode.
- Observing the Waveform Monitor, confirm that the Chroma Pedestal level is less than 35 mV as shown in Fig. 4-12.

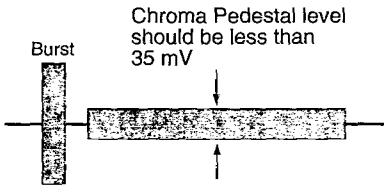


Fig. 4-12

- Press CURSOR (◄) or (►) button to select the PED (Y Pedestal) position of 2 CH as shown in Fig. 4-10.
- Connect the terminated Oscilloscope with 75Ω to the VTR Output Connector.
- Adjust SELECT (+) or (–) button so that the Luminance Pedestal level becomes 0^{+7}_{-0} mV as shown in Fig. 4-13.
- Adjust VR201 so that the Luminance level becomes 700 ± 14 mV as shown in Fig. 4-13.

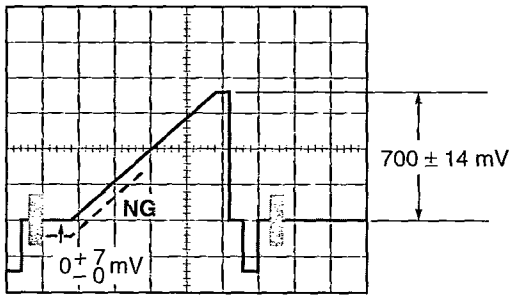
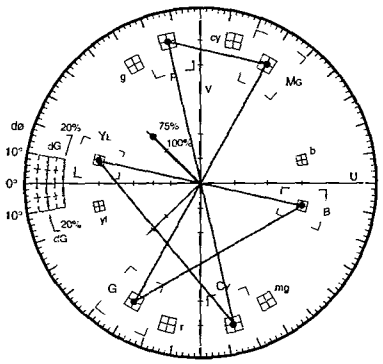


Fig. 4-13

- Supply the Colour Bar signal to the Video Input Connector 2 on the Rear Panel.
- Adjust VR203 so that the Chroma vectors position at their respective boxes as shown in Fig. 4-14.
- Adjust VR204 so that the Chroma phase becomes within specifications as shown in Fig. 4-14.



	Red	Yellow	Cyan
Gain	220±7%	155±10%	220±12%
Phase	103±5°	167±8°	283±7°

Fig. 4-14

- Repeat adjusting VR203 and VR204 so that the Chroma gain and phase become satisfactory.
- After adjusting press the ESC button.
- Supply the Ramp signal to the Video Input Connector 3 on the Rear Panel.
- Set the Gain Control of the Vectorscope to maximum.
- Press CURSOR (◄) or (►) button to select the CA-R Carrier Balance (R-Y) position of 3 CH as shown in Fig. 4-15.

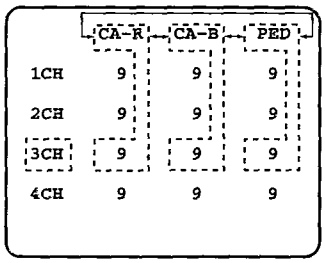


Fig. 4-15

- Adjust SELECT (+) or (–) button so that the vector positions at the center of the Vectorscope as shown in Fig. 4-16.
- Press CURSOR (◄) or (►) button to select the CA-B Carrier Balance (B-Y) position of 3 CH as shown in Fig. 4-15.
- Adjust SELECT (+) or (–) button so that the vector positions at the center of the Vectorscope as shown in Fig.4-16.

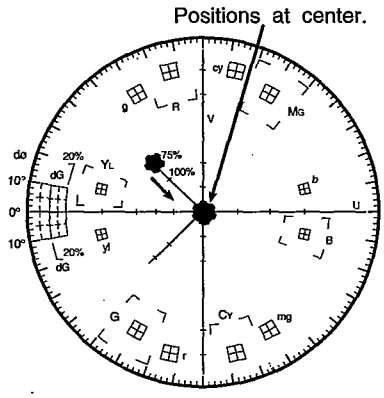


Fig. 4-16

- Set the Waveform Monitor to the Chroma mode.
- Observing the Waveform Monitor, confirm that the Chroma Pedestal level is less than 35 mV as shown in Fig. 4-17.

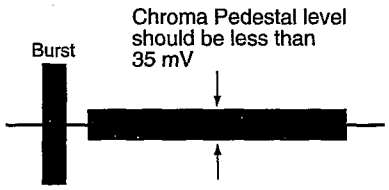


Fig. 4-17

- Press CURSOR (◄) or (►) button to select the PED (Y Pedestal) position of 3CH as shown in Fig. 4-15.
- Connect the terminated Oscilloscope with 75Ω to the VTR Output Connector.
- Adjust SELECT (+) or (–) button so that the Luminance Pedestal level becomes 0^{+7}_{-0} mV as shown in Fig. 4-18.
- Adjust VR301 so that the Luminance level becomes 700 ± 14 mV as shown in Fig. 4-18.

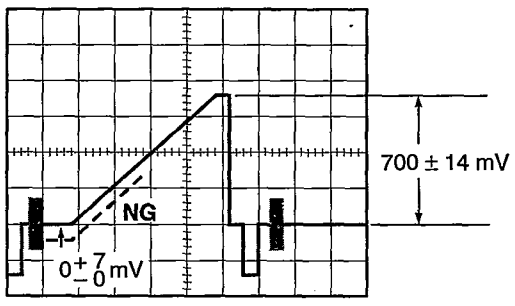
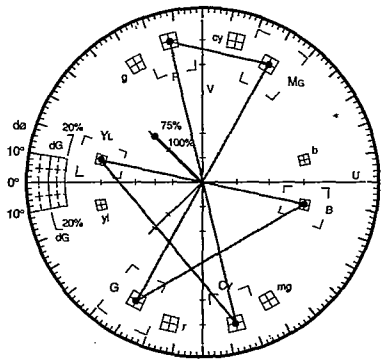


Fig. 4-18

- Supply the Colour Bar signal to the Video Input Connector 3 on the Rear Panel.
- Adjust VR303 so that the Chroma vectors position at their respective boxes as shown in Fig. 4-19.
- Adjust VR304 so that the Chroma phase becomes within specifications as shown in Fig. 4-19.



	Red	Yellow	Cyan
Gain	220±7%	155±10%	220±12%
Phase	103±5°	167±8°	283±7°

Fig. 4-19

- Repeat adjusting VR303 and VR304 so that the Chroma gain and phase become satisfactory.
- After adjusting press the ESC button.
- Supply the Ramp signal to the Video Input Connector 4 on the Rear Panel.
- Set the Gain Control of the Vectorscope to maximum.
- Press CURSOR (◄) or (►) button to select the CA-R Carrier Balance (R-Y) position of 4 CH as shown in Fig. 4-20.

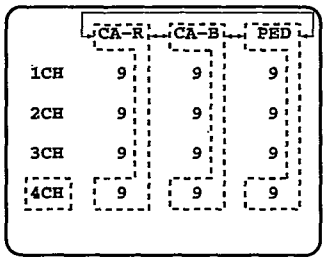


Fig. 4-20

- Adjust SELECT (+) or (–) button so that the vector positions at the center of the Vectorscope as shown in Fig. 4-21.
- Press CURSOR (◄) or (►) button to select the CA-B Carrier Balance (B-Y) position of 4 CH as shown in Fig. 4-20.
- Adjust SELECT (+) or (–) button so that the vector positions at the center of the Vectorscope as shown in Fig.4-21.

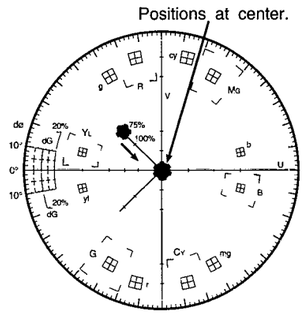


Fig. 4-21

- Set the Waveform Monitor to the Chroma mode.
- Observing the Waveform Monitor, confirm that the Chroma Pedestal level is less than 35 mV as shown in Fig. 4-22.

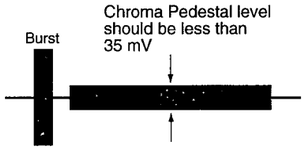


Fig. 4-22

- Press CURSOR (◄) or (►) button to select the PED (Y Pedestal) position of 4 CH as shown in Fig. 4-20.
- Connect the terminated Oscilloscope with 75Ω to the VTR Output Connector.
- Adjust SELECT (+) or (–) button so that the Luminance Pedestal level becomes $0\ ^{+7}_{-0}$ mV as shown in Fig. 4-23.
- Adjust VR401 so that the Luminance level becomes 700 ± 14 mV as shown in Fig. 4-23.

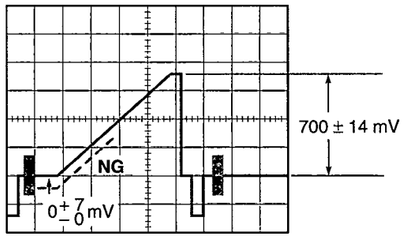
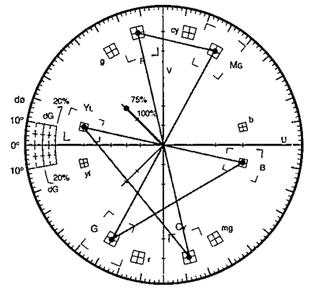


Fig. 4-23

- Supply the Colour Bar signal to the Video Input Connector 4 on the Rear Panel.
- Adjust VR403 so that the Chroma vectors position at their respective boxes as shown in Fig. 4-24.
- Adjust VR404 so that the Chroma phase becomes within specifications as shown in Fig. 4-24.



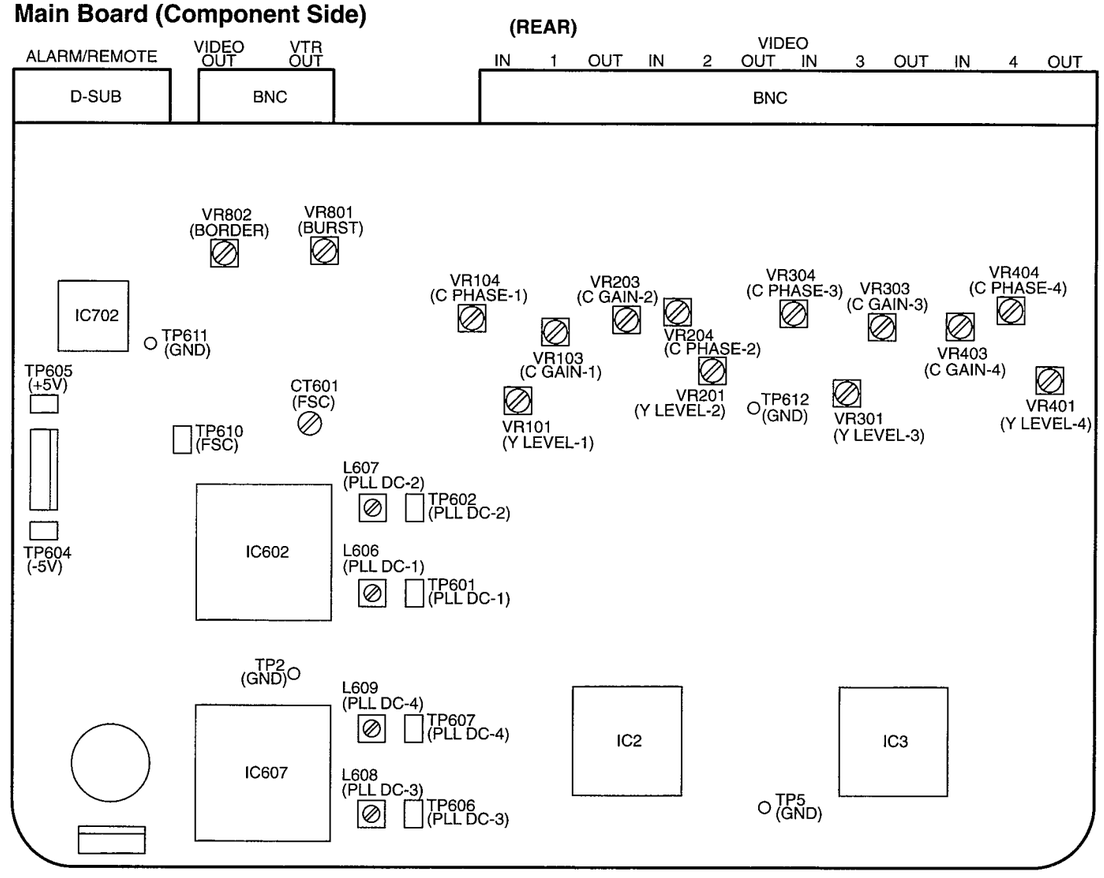
	Red	Yellow	Cyan
Gain	220±7%	155±10%	220±12%
Phase	103±5°	167±8°	283±7°

Fig. 4-24

- Repeat adjusting VR403 and VR404 so that the Chroma gain and phase become satisfactory.
- After adjusting press the ESC button.

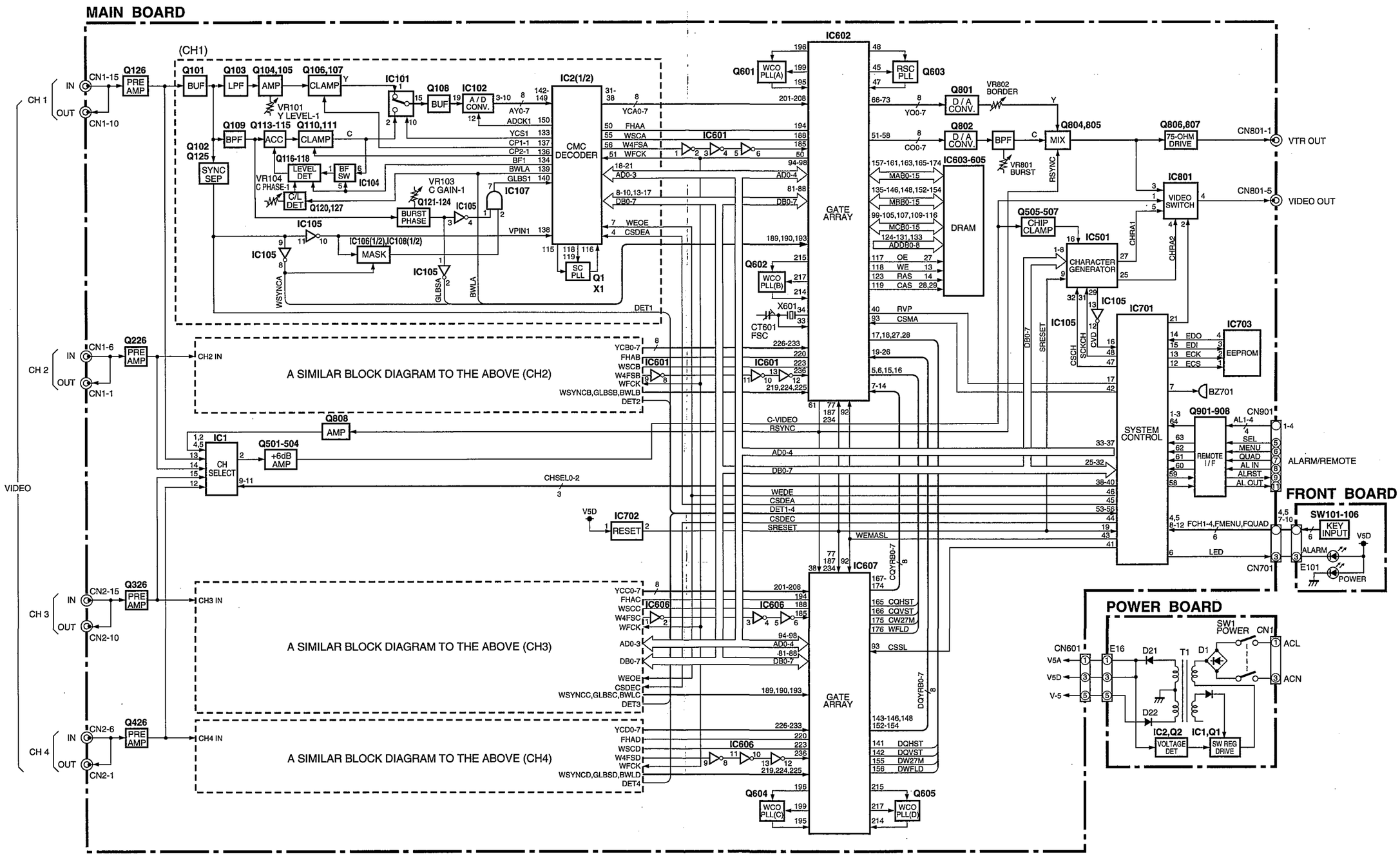
LOCATION OF TEST POINTS AND ADJUSTING CONTROLS

Main Board (Component Side)

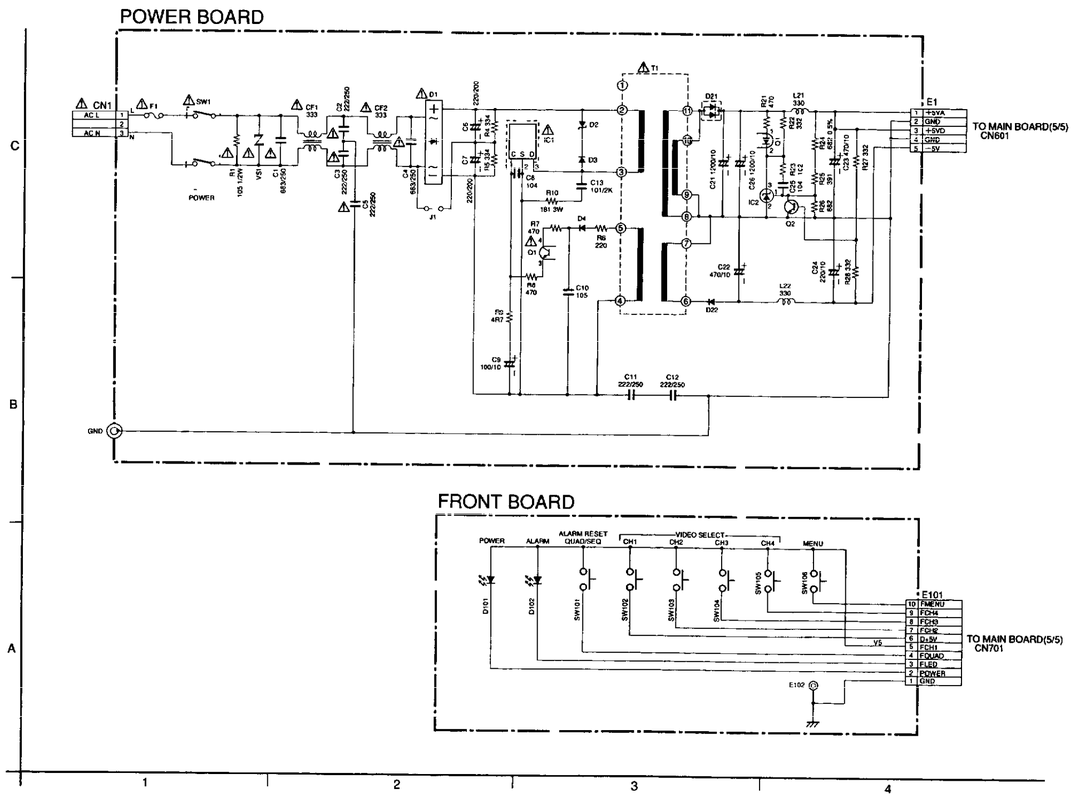


(FRONT)

BLOCK DIAGRAM



SCHEMATIC DIAGRAM OF FRONT BOARD / POWER BOARD



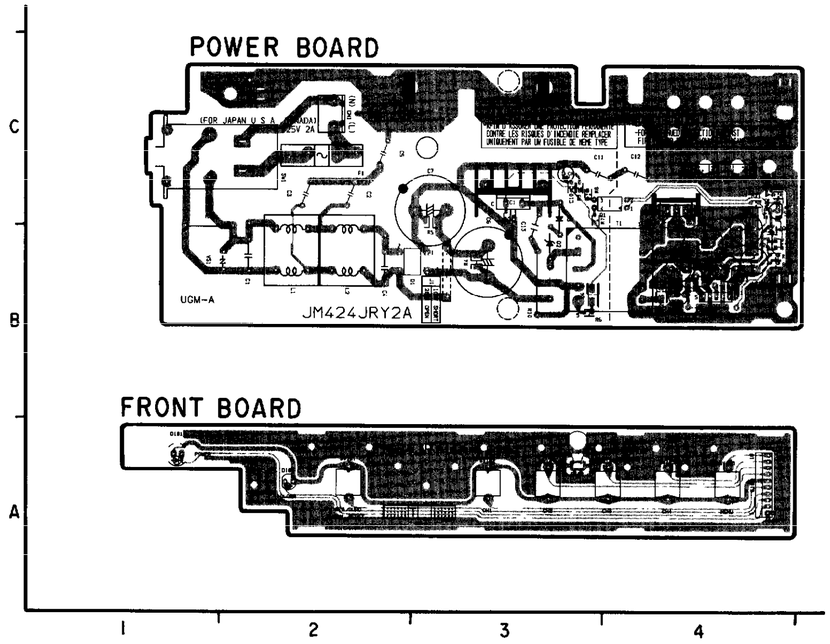
POWER BOARD

IC1	C3
IC2	C3
Q1	C4
Q2	C4
D1	C2
D2	C3
D3	C3
D4	C3
D21	C3
D22	B3

FRONT BOARD

D101	A2
D102	A3

CONDUCTOR VIEW OF FRONT BOARD / POWER BOARD



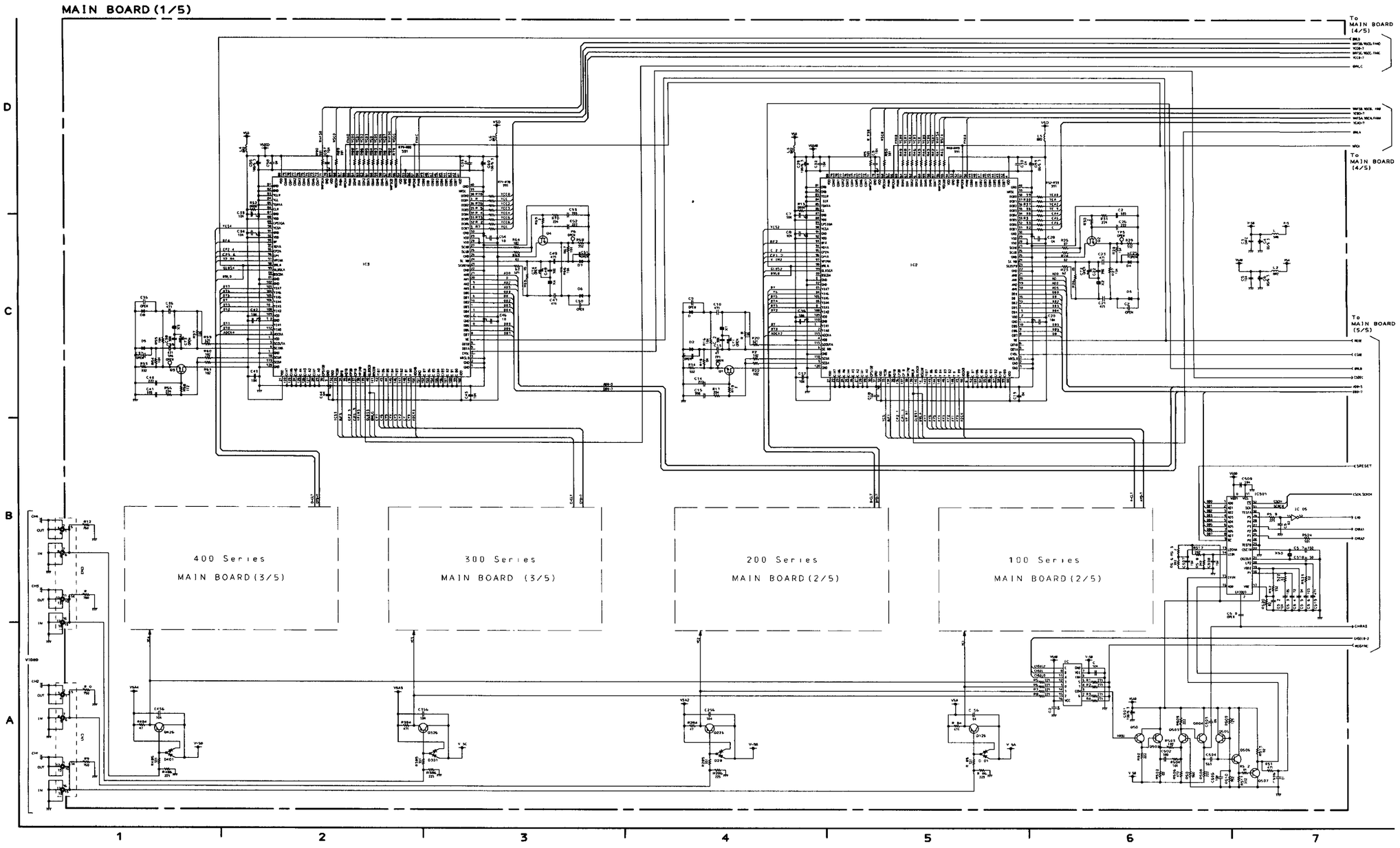
POWER BOARD

IC1	C3
IC2	C4
Q1	C4
Q2	C4
D1	B3
D2	B3
D3	C3
D4	B4
D21	C4
D22	B4

FRONT BOARD

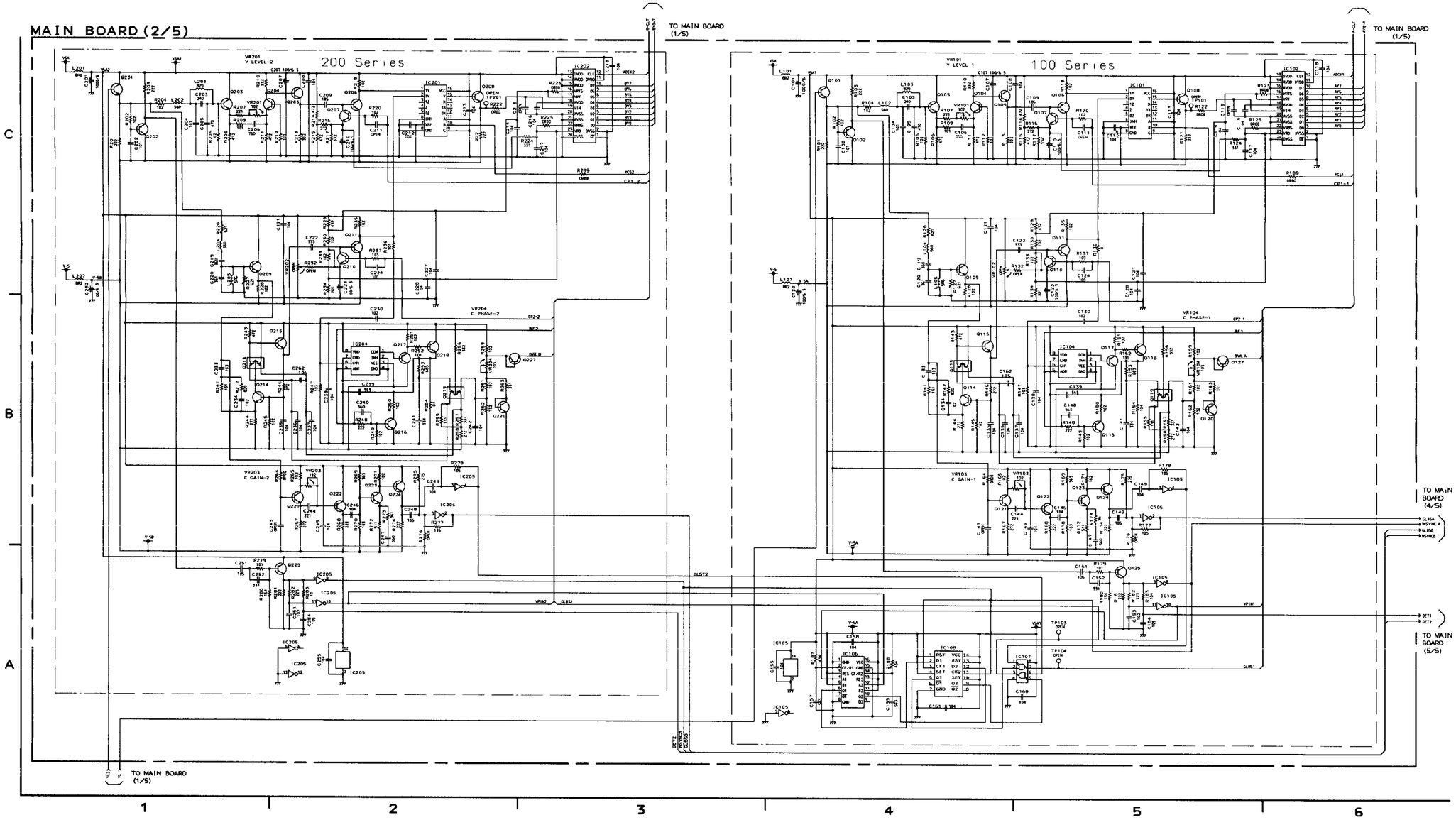
D101	A1
D102	A2

SCHEMATIC DIAGRAM OF MAIN BOARD (1/5)



MAIN BOARD(1/5)	
IC1	A6
IC2	C5
IC3	C2
IC105	B7
IC501	B7
Q1	C4
Q2	C6
Q3	C1
Q4	C3
Q126	A5
Q226	A4
Q326	A3
Q426	A1
Q501	A6
Q502	A6
Q503	A6
Q504	A6
Q505	A6
Q506	A7
Q507	A7
D1	C4
D2	C4
D3	C6
D4	C6
D5	C1
D6	C3
D7	C3
D8	C1
D101	A5
D201	A4
D301	A3
D401	A1

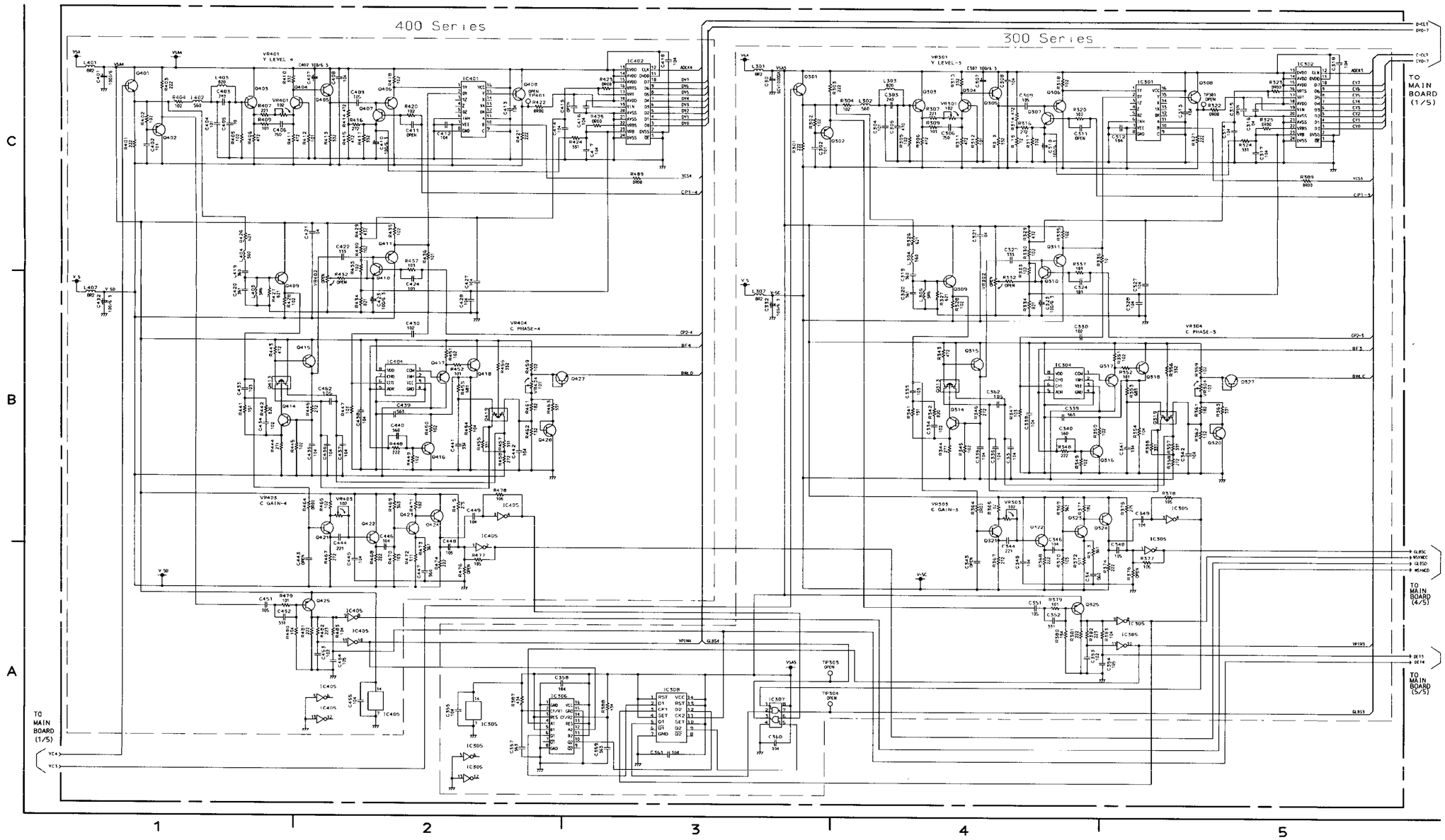
SCHEMATIC DIAGRAM OF MAIN BOARD (2/5)



MAIN BOARD(2/5)

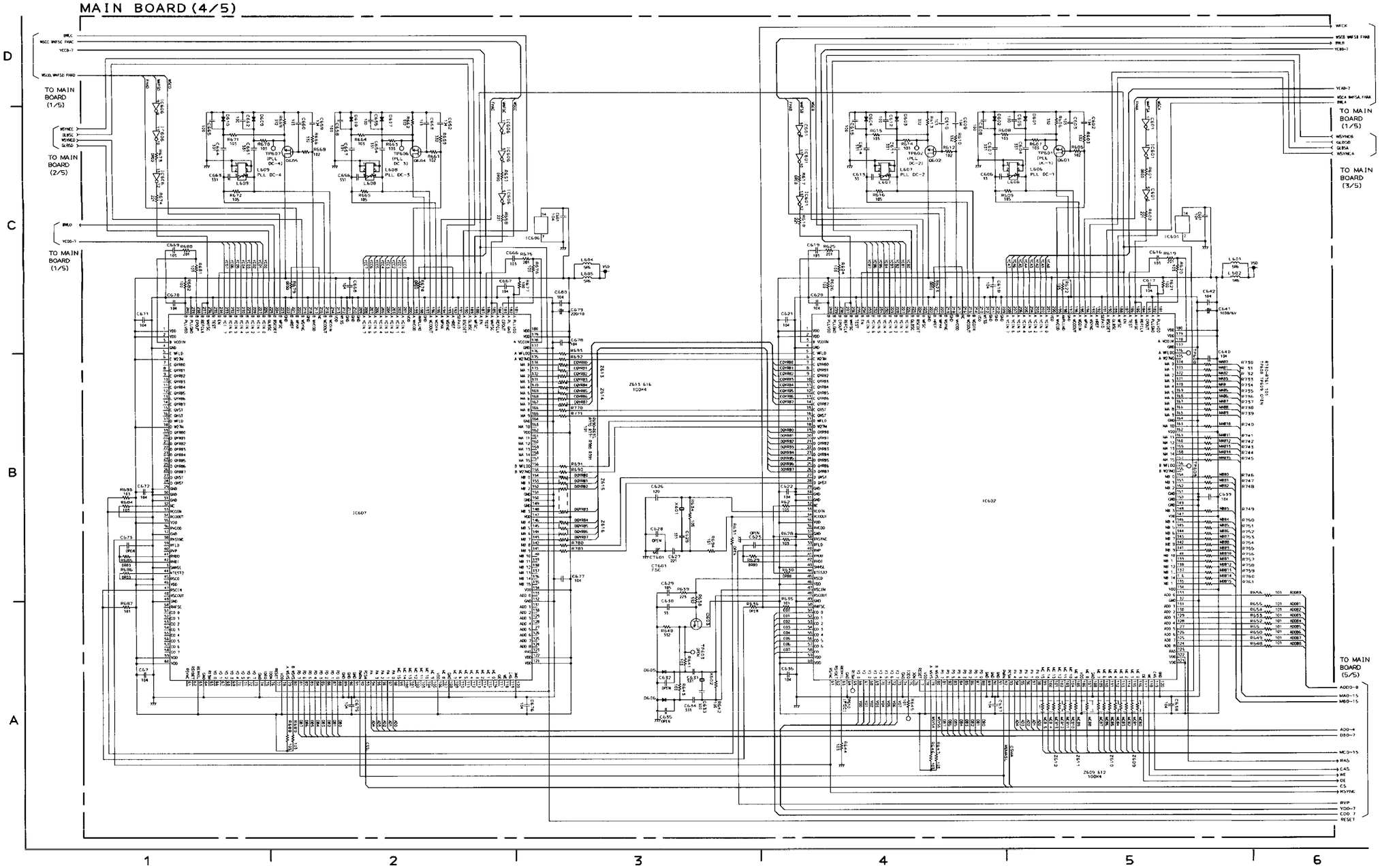
IC101	C5
IC102	C6
IC104	B5
IC105	B5
IC106	A4
IC107	A5
IC108	A4
IC201	C2
IC202	C3
IC204	B2
IC205	B2
Q101	C4
Q102	C4
Q103	C4
Q104	C4
Q105	C4
Q106	C5
Q107	C5
Q108	C5
Q109	C4
Q110	C5
Q111	C5
Q113	B4
Q114	B4
Q115	B4
Q116	B5
Q117	B5
Q118	B5
Q119	B5
Q120	B5
Q121	B4
Q122	B5
Q123	B5
Q124	B5
Q125	A5
Q127	B5
Q201	C1
Q202	C1
Q203	C1
Q204	C2
Q205	C2
Q206	C2
Q207	C2
Q208	C2
Q209	C1
Q210	C2
Q211	C2
Q213	B1
Q214	B1
Q215	B2
Q216	B2
Q217	B2
Q218	B2
Q219	B2
Q220	B2
Q221	B2
Q222	B2
Q223	B2
Q224	B2
Q225	A2
Q227	B3

SCHEMATIC DIAGRAM OF MAIN BOARD (3/5)



MAIN BOARD(3/5)	
IC301	C5
IC302	C5
IC304	B4
IC305	A5
IC306	A3
IC307	A3
IC308	A3
IC401	C2
IC402	C3
IC404	B2
IC405	A2
Q301	C3
Q302	C3
Q303	C4
Q304	C4
Q305	C4
Q306	C4
Q307	C4
Q308	C5
Q309	B4
Q310	C4
Q311	C4
Q313	B4
Q314	B4
Q315	B4
Q316	B5
Q317	B5
Q318	B5
Q319	B5
Q320	B5
Q321	B4
Q322	B4
Q323	B5
Q324	B5
Q325	A4
Q327	B5
Q401	C1
Q402	C1
Q403	C1
Q404	C2
Q405	C2
Q406	C2
Q407	C2
Q408	C2
Q409	B1
Q410	C2
Q411	C2
Q413	B1
Q414	B1
Q415	B2
Q416	B2
Q417	B2
Q418	B2
Q419	B2
Q420	B2
Q421	B2
Q422	B2
Q423	B2
Q424	B2
Q425	A2
Q427	B3

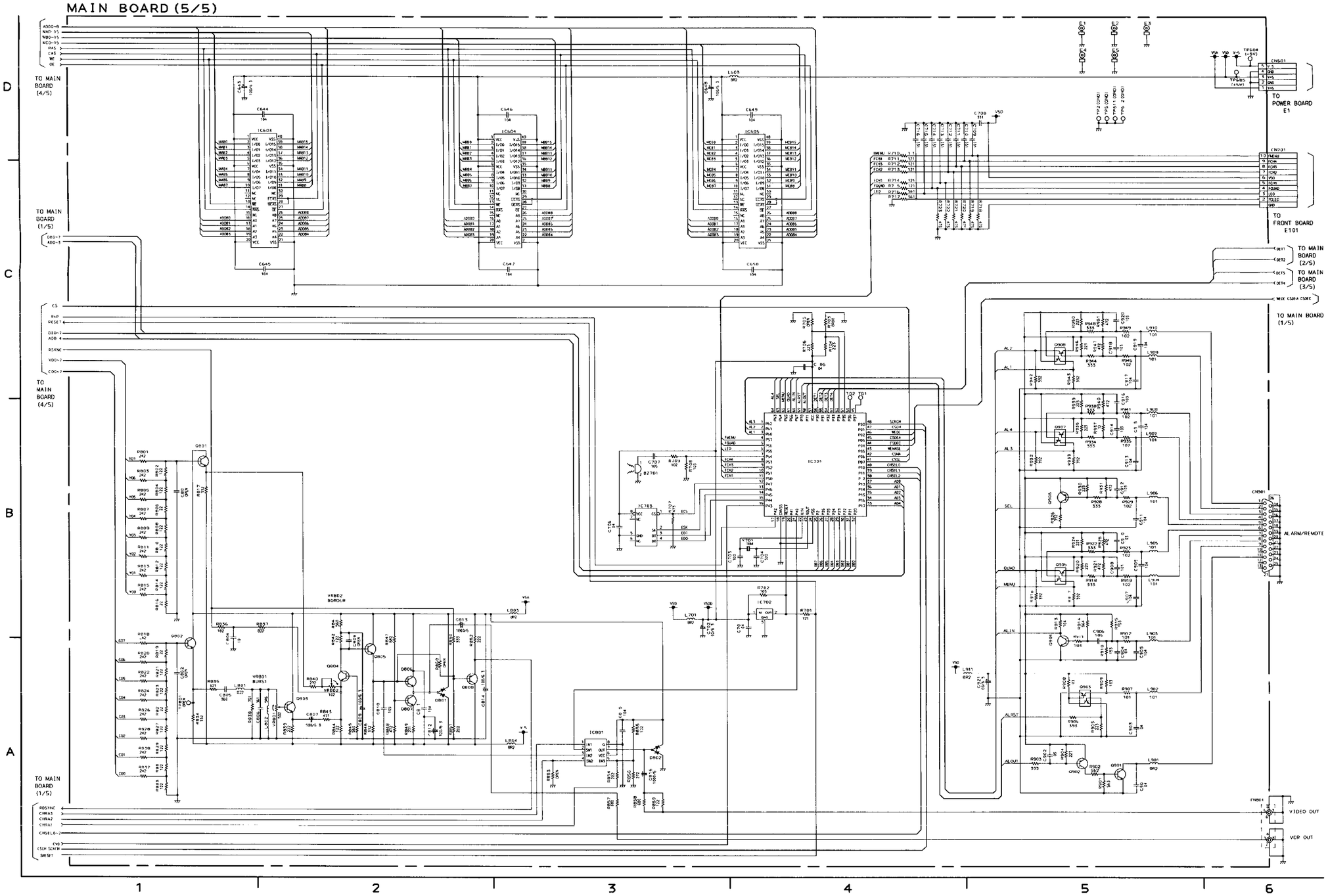
SCHEMATIC DIAGRAM OF MAIN BOARD (4/5)



MAIN BOARD(4/5)

IC601	C5
IC602	B4
IC606	C2
IC607	B2
Q601	C5
Q602	C4
Q603	A3
Q604	C2
Q605	C2
D601	C5
D602	C4
D603	C4
D604	C4
D605	A3
D606	A3
D607	C2
D608	C2
D609	C1
D610	C1

SCHEMATIC DIAGRAM OF MAIN BOARD (5/5)

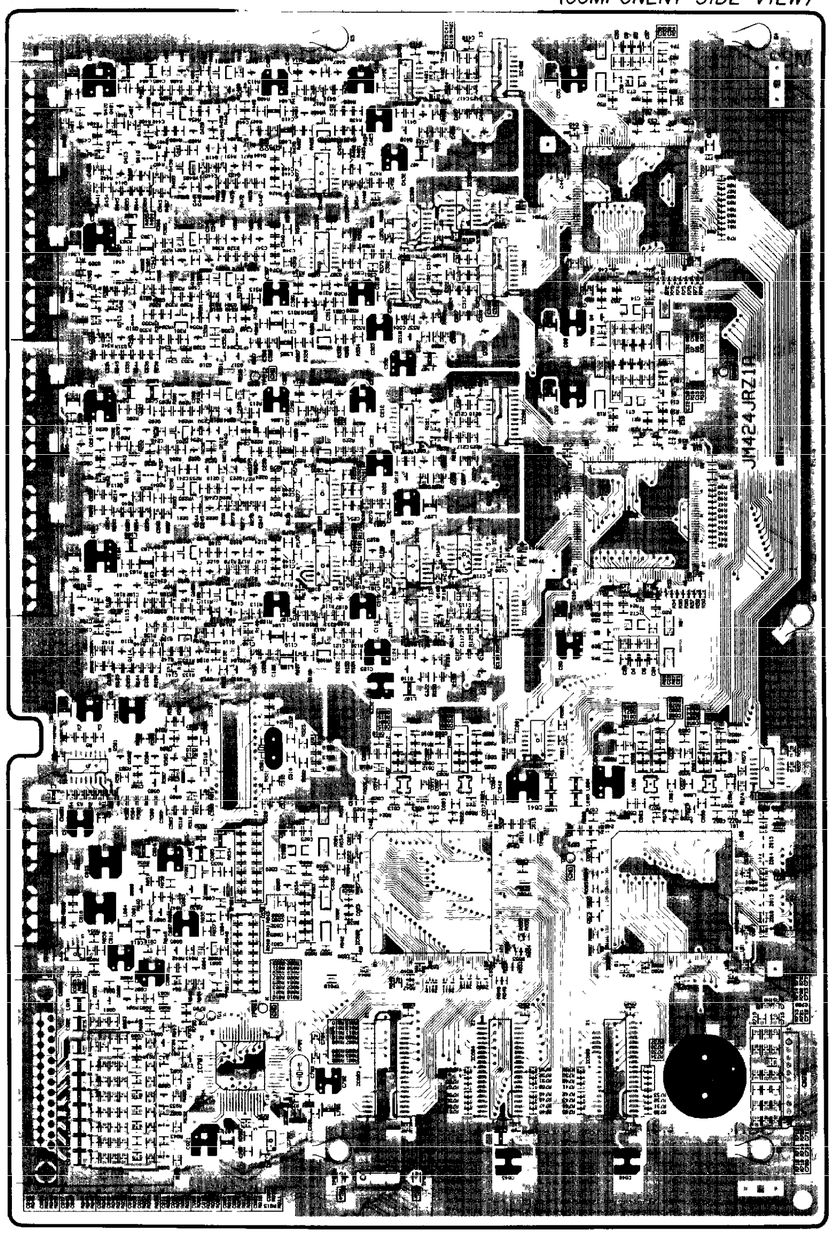


MAIN BOARD(5/5)

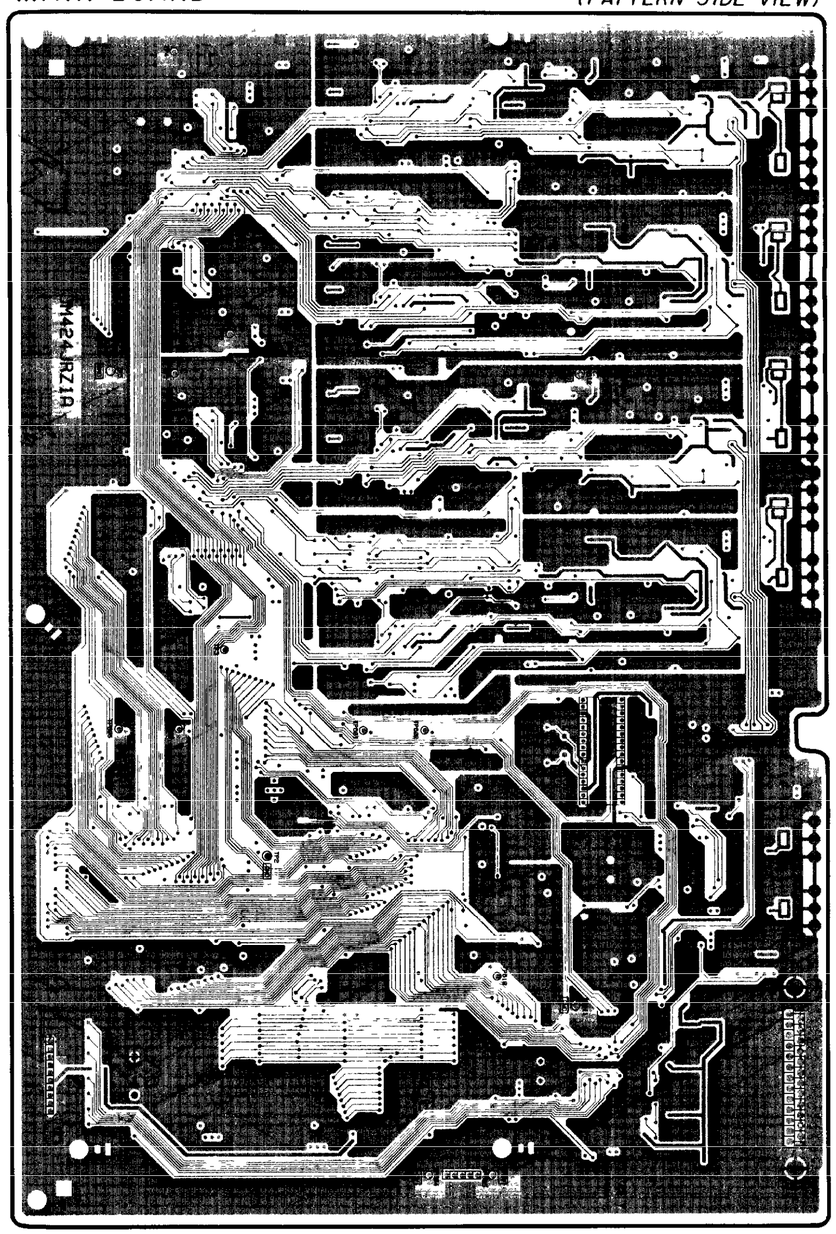
IC603	D2
IC604	D3
IC605	D4
IC701	B4
IC702	B4
IC703	B3
IC801	A3
Q801	B1
Q802	A1
Q803	A2
Q804	A2
Q805	A2
Q806	A2
Q807	A2
Q808	A2
Q901	A5
Q902	A5
Q903	A5
Q904	A5
Q905	B5
Q906	B5
Q907	B5
Q908	C5
D801	A2
D802	A3

CONDUCTOR VIEW OF MAIN BOARD

MAIN BOARD (COMPONENT SIDE VIEW)



MAIN BOARD (PATTERN SIDE VIEW)



E
D
C
B
A
1 2 3 4 5 6 7

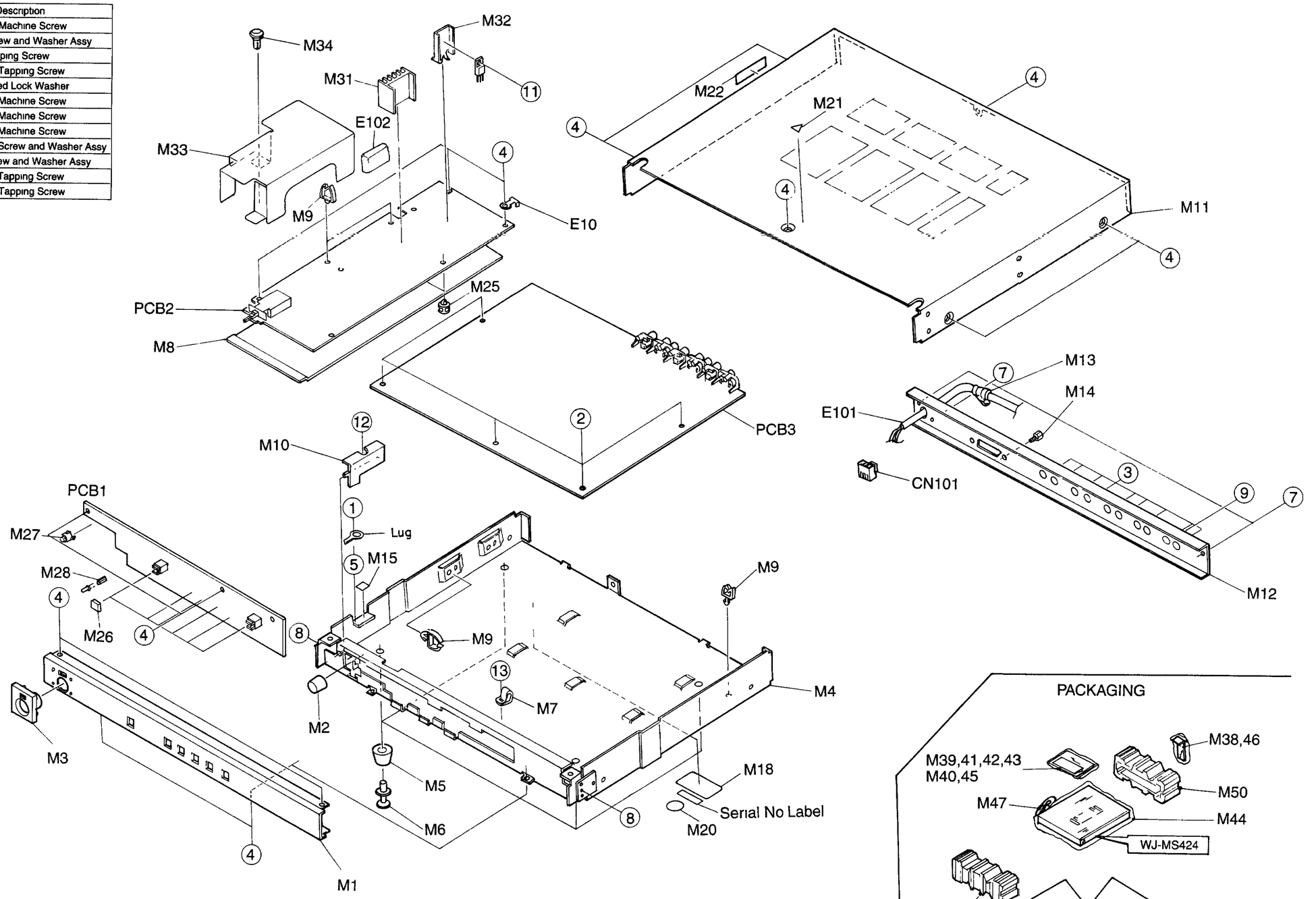
MAIN BOARD

IC1	B1	Q127	C3	Q416	E2
IC2	C3	Q201	D1	Q417	E2
IC3	E3	Q202	D1	Q418	E2
IC101	C2	Q203	D1	Q419	E1
IC102	C3	Q204	D2	Q420	E1
IC104	C2	Q205	D2	Q421	E1
IC105	C2	Q206	D2	Q422	E2
IC106	C2	Q207	D2	Q423	E2
IC107	C3	Q208	D2	Q424	E2
IC108	C3	Q209	D2	Q425	E2
IC201	D2	Q210	D2	Q426	E1
IC202	D3	Q211	D2	Q427	E3
IC204	D2	Q213	D1	Q501	C1
IC205	C2	Q214	D1	Q502	B1
IC301	D2	Q215	D1	Q503	B1
IC302	D3	Q216	D2	Q504	B1
IC304	D2	Q217	D2	Q505	B1
IC305	E1	Q218	D2	Q506	B1
IC306	E2	Q219	D1	Q507	B1
IC307	E3	Q220	D1	Q601	C2
IC308	E3	Q221	C1	Q602	C2
IC401	E2	Q222	C2	Q603	B2
IC402	E3	Q223	D2	Q604	C3
IC404	E2	Q224	D2	Q605	C3
IC405	E2	Q225	C2	Q801	B2
IC501	C2	Q226	D1	Q802	B2
IC601	C3	Q227	C3	Q803	B1
IC602	B2	Q301	D1	Q804	B1
IC603	A3	Q302	D1	Q805	B1
IC604	A3	Q303	D1	Q806	B1
IC605	A2	Q304	D2	Q807	B1
IC606	C4	Q305	D2	Q808	B1
IC607	B3	Q306	D2	Q901	A1
IC701	A2	Q307	D2	Q902	B1
IC702	A2	Q308	D2	Q903	A1
IC703	A2	Q309	D2	Q904	A1
IC801	B1	Q310	D2	Q905	A1
		Q311	D2	Q906	A1
Q1	D3	Q313	D1	Q907	A1
Q2	C3	Q314	D1	Q908	A1
Q3	E3	Q315	D1		
Q4	D3	Q316	D2	D1	D3
Q101	C1	Q317	D2	D2	D3
Q102	C1	Q318	D2	D3	C3
Q103	C1	Q319	D1	D4	C3
Q104	C2	Q320	D1	D5	E3
Q105	C2	Q321	D1	D6	D3
Q106	C2	Q322	D2	D7	D3
Q107	C2	Q323	E2	D8	E3
Q108	C2	Q324	E2	D101	C1
Q109	C2	Q325	E2	D201	D1
Q110	C2	Q326	D1	D301	D1
Q111	C2	Q327	D3	D401	E1
Q113	C1	Q401	E1	D601	B3
Q114	C1	Q402	E1	D602	C2
Q115	C1	Q403	E1	D603	B2
Q116	C2	Q404	E2	D604	C2
Q117	C2	Q405	E2	D605	B2
Q118	C2	Q406	E2	D606	B2
Q119	C1	Q407	E2	D607	B4
Q120	C1	Q408	E2	D608	C3
Q121	C1	Q409	E2	D609	C3
Q122	C2	Q410	E2	D610	C3
Q123	C2	Q411	E2	D801	B1
Q124	C2	Q413	E1	D802	B1
Q125	C2	Q414	E1		
Q126	C1	Q415	E1		

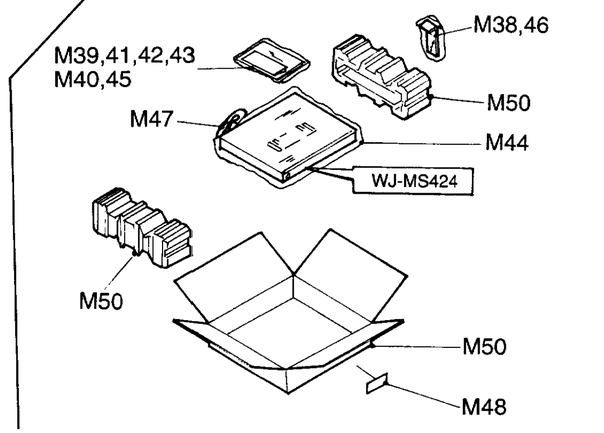
EXPLODED VIEW

○Number's show Screws and Washers

No	Screws	Description
①	XSB4+8FN	Binding Head Machine Screw
②	XYN3+F8FN	Pan Head Screw and Washer Assy
③	XTN3+10CFN	Pan Head Tapping Screw
④	XTB3+6FFN	Binding Head Tapping Screw
⑤	XWC4BFN	Internal Toothed Lock Washer
⑥	XSB3+10FN	Binding Head Machine Screw
⑦	YWA1AA0270A4	Binding Head Machine Screw
⑧	XSB3+6FX	Binding Head Machine Screw
⑨	XYM4+E8FN	Binding Head Screw and Washer Assy
⑪	XYN3+J8FX	Pan Head Screw and Washer Assy
⑫	XTB3+8FFN	Binding Head Tapping Screw
⑬	XTW3-8LFX	Washer Head Tapping Screw



PACKAGING



REPLACEMENT PARTS LIST

Important Notice

1. Components identified by " ⚠ " mark have special characteristics important for safety.
   When replacing any of these components, use only manufacturer's specified parts.
2. RTL : Retention Time Limited (No longer available after discontinuing product).

REF. NO.		PART NO.	DESCRIPTION
MISCELLANEOUS			
E101	⚠	YWKPGTSA25P	AC Power Cord Assy for WJ-MS424/A
	⚠	YWGBSXBS	AC Power Cord Assy for WJ-MS424/B
	⚠	YWP242XGSI	AC Power Cord Assy for WJ-MS424/G
E102		YW840522	Fuse Insulator Cover
CN101		YWVAR2	AC Power Connector Case
M1		YWV5WB2421A2	Front Panel
M2		YWA5RG0141A3	Knob
M3		YWV5CA0504B2	Card Holder
M4		YWV2KC1124A1	Main Chassis
M5		YWV5LA0067A4	Rubber Foot
M6		YWA2LA0070A4	Joint
M7		NK-10N	Cord Clamp
M8		YWV2PB1057A3	Insulator
M9		YWUAMS11V0	Cord Clamp
M10		YWV2SA4528A4	Mounting Angle
M11		YWV5EA1358A1	Upper Cover
M12		YWV5WC2422A2	Rear Panel
M13	⚠	YWSR6W1	Cord Clamp for WJ-MS424/A
	⚠	YWSR5N4	Cord Clamp for WJ-MS424/B,G
M14		YWJFS2.6SB1WM	Special Screw
M15	⚠	YWA7SA0689A4	Earth Labe
M18	⚠	YWV7QA4887A4	Main Label for WJ-MS424/A
	⚠	YWV7QA4888A4	Main Label for WJ-MS424/B
	⚠	YWV7QA4889A4	Main Label for WJ-MS424/G
M19	⚠	YWV7MA0473A4	Safety Label for WJ-MS424/G
M20	⚠	YWV7MA0261A4	SEMKO Label for WJ-MS424/B,G
M22	⚠	YFV7MB0099A4	Safety Label
M23		YWNK-10N	Cord Clamp
M25		YW2J08	Support

REF. NO.		PART NO.	DESCRIPTION	
FRONT BOARD				
PCB1(RTL)		YWJM424JKY1S	Printed Circuit Board Assy	
D101		LN242RP	LED	
D102		LN29RD	LED	
SW101-106		YWSKECAF	Push Switch	
E101		YWELY922V510	Wire Assy for Main Board CN701	
E102		YWMEP1866	Terminal	
M26		YWV6JA0107A4	Button	
M27		YWA2NA0300A4	LED Holder	
M28		YWLH55	LED Spacer	
POWER BOARD				
PCB2(RTL)		YWJM424EKY2S	Printed Circuit Board Assy	
IC1	⚠	MIP164	IC	
IC2		YWTA76431S	IC	
Q1	⚠	YWPC123FY2	Photo Coupler	
Q2		2SC2412KT96	Transistor	
VS1	⚠	YWJ07N471KP	ZNR	
D1	⚠	YWDB155G	Diode	
D2		YWP6KE180A	Diode	
D3		YWERB3710	Diode	
D4		YWSC2012	Diode	
R1		ERC12ZGM105	Solid	1M ohms
R4		ERJ14YJ334H	Carbon	330K ohms 1/4W
R5		ERJ14YJ334H	Carbon	330K ohms 1/4W
R6		ERJ6GEYJ220	Carbon	22 ohms1/10W
R7,8		ERJ6GEYJ470	Carbon	47 ohms1/10W
R9		ERJ6GEYJ4R7V	Carbon	4.7 ohms1/10W
R10		ERG3SJ181P	Metal	180 ohms 3W
R21		ERJ6GEYJ470	Carbon	47 ohms1/10W
R22		ERJ6GEYJ332	Carbon	3.3K ohms1/10W
R23		ERJ6GEYJ102	Carbon	1K ohms1/10W
R24		ERA6YED682V	Metal	6.8K ohms
R25		ERJ6GEYJ391	Carbon	390 ohms1/10W
R26		ERA6YED682V	Metal	6.8K ohms1/10W
R27,28		ERJ6GEYJ332	Carbon	3.3K ohms1/10W
C1	⚠	YWX75M683VS0	Plastic	0.068 µF
C2,3	⚠	YW12FY222ML7	Ceramic	2200 pF
C4	⚠	YWX75M683VS0	Plastic	0.068 µF
C5	⚠	YW12FY222ML7	Ceramic	2200 pF
C6,7		EC0S2DA221BB	Electrolytic	220 µF
C8		YF400104FZT	Ceramic	0.1 µF

REF. NO.	PART NO.	DESCRIPTION	
C9	ECA1ATE101	Electrolytic	100 µF 10V
C10	YW400105FZ	Ceramic	1 µF
C11,12	YW12FY222ML7	Ceramic	2200 pF
C13	ECKD3D101KBP	Ceramic	100 pF
C21	EEUFC1A122	Electrolytic	1200 µF 10V
C22	EEUFC1A471E	Electrolytic	470 µF 10V
C23	EEUFC1A471E	Electrolytic	470 µF 10V
C24	EEUFC1A221E	Electrolytic	220 µF 10V
C25	YF400104FZT	Ceramic	0.1 µF
C26	EEUFC1A122	Electrolytic	1200 µF 10V
CF1,2 ⚠	YW0R3A333F20	Filter	
L21	YWSL810330	Coil	
L22	YWSL675330	Coil	
T1 ⚠	YW18514C	Power Transformer	
SW1 ⚠	YWSDDFA3	Push Switch	
CN1 ⚠	YWB2P3VH	2-pin Connector	
F1 ⚠	XBA2C20ET0A	Current Fuse	2A 250V
E1	YWFS216E01A	Wire Ass' y	
E2,3	YWSN505701	Fuse Holder	
E10	YWA2QA0134A4	Electrode	
E11	YW851040	Insulator	
M31	YFV7DA0045A4	Heat Sink	
M32	YWA7DA0081B4	Heat Sink	
M33 ⚠	YWV2PA1152A3	Insulator	
M34	YWP4050	Tack	

REF. NO.	PART NO.	DESCRIPTION
MAIN BOARD		
PCB3(RTL)	YWJM424EKZ1A	Printed Circuit Board Assy
IC1	YWMCHC4051E	IC
IC2,3	YWMVT85038	IC
IC101	YWMCHC4053E	IC
IC102	YWCXD1175AM	IC
IC104	YWTC4W53FUL	IC
IC105	YWMCHC04AE	IC
IC106	YWMCHC4538AE	IC
IC107	YWTC7W08FUL	IC
IC108	YWMCHC74AE	IC
IC201	YWMCHC4053E	IC
IC202	YWCXD1175AM	IC
IC204	YWTC4W53FUL	IC
IC205	YWMCHC04AE	IC
IC301	YWMCHC4053E	IC
IC302	YWCXD1175AM	IC
IC304	YWTC4W53FUL	IC
IC305	YWMCHC04AE	IC
IC306	YWMCHC4538AE	IC
IC307	YWTC7W08FUL	IC
IC308	YWMCHC74AE	IC
IC401	YWMCHC4053E	IC
IC402	YWCXD1175AM	IC
IC404	YWTC4W53FUL	IC
IC405	YWMCHC04AE	IC
IC501	YWM35060058	IC
IC601	YWMCHC04AE	IC
IC602	YWNOKZ	LSI
IC603-605	HM14265DJ68	IC
IC607	YWNOKZ	LSI
IC606	YWMCHC04AE	IC
IC701	38003E6125	IC
IC702	M51951AMLW	IC
IC703	YWBR93LC66RF	IC
IC801	YWNJM2244M	IC
Q1-4	2SK209-GR	Transistor
Q101	2SC2412KT96	Transistor
Q102	2SA1037-QRS	Transistor
Q103-105	2SC2412KT96	Transistor
Q106	2SA1037-QRS	Transistor
Q107-110	2SC2412KT96	Transistor
Q111	2SA1037-QRS	Transistor
Q113	XN1501	Transistor
Q114	2SC2412KT96	Transistor
Q115	2SC3837KT47	Transistor

REF. NO.	PART NO.	DESCRIPTION
Q116	2SC2412KT96	Transistor
Q117	2SA1037-QRS	Transistor
Q118	2SC2412KT96	Transistor
Q119	XN1401	Transistor
Q120	2SC2412KT96	Transistor
Q121,122	2SC2412KT96	Transistor
Q123	2SC3837KT47	Transistor
Q124	2SC2412KT96	Transistor
Q125,126	2SA1037-QRS	Transistor
Q127	2SC2412KT96	Transistor
Q201	2SC2412KT96	Transistor
Q202	2SA1037-QRS	Transistor
Q203-205	2SC2412KT96	Transistor
Q206	2SA1037-QRS	Transistor
Q207-210	2SC2412KT96	Transistor
Q211	2SA1037-QRS	Transistor
Q213	XN1501	Transistor
Q214	2SC2412KT96	Transistor
Q215	2SC3837KT47	Transistor
Q216	2SC2412KT96	Transistor
Q217	2SA1037-QRS	Transistor
Q218	2SC2412KT96	Transistor
Q219	XN1401	Transistor
Q220	2SC2412KT96	Transistor
Q223	2SC3837KT47	Transistor
Q221,222	2SC2412KT96	Transistor
Q224	2SC2412KT96	Transistor
Q225,226	2SA1037-QRS	Transistor
Q227	2SC2412KT96	Transistor
Q301	2SC2412KT96	Transistor
Q302	2SA1037-QRS	Transistor
Q303-305	2SC2412KT96	Transistor
Q306	2SA1037-QRS	Transistor
Q307-310	2SC2412KT96	Transistor
Q311	2SA1037-QRS	Transistor
Q313	XN1501	Transistor
Q314	2SC2412KT96	Transistor
Q315	2SC3837KT47	Transistor
Q316	2SC2412KT96	Transistor
Q317	2SA1037-QRS	Transistor
Q318	2SC2412KT96	Transistor
Q319	XN1401	Transistor
Q320-322	2SC2412KT96	Transistor
Q323	2SC3837KT47	Transistor
Q324	2SC2412KT96	Transistor
Q325,326	2SA1037-QRS	Transistor
Q327	2SC2412KT96	Transistor
Q401	2SC2412KT96	Transistor
Q402	2SA1037-QRS	Transistor
Q403-405	2SC2412KT96	Transistor

REF. NO.	PART NO.	DESCRIPTION	
Q406	2SA1037-QRS	Transistor	
Q407-410	2SC2412KT96	Transistor	
Q411	2SA1037-QRS	Transistor	
Q413	XN1501	Transistor	
Q414	2SC2412KT96	Transistor	
Q415	2SC3837KT47	Transistor	
Q416	2SC2412KT96	Transistor	
Q417	2SA1037-QRS	Transistor	
Q418	2SC2412KT96	Transistor	
Q419	XN1401	Transistor	
Q420	2SC2412KT96	Transistor	
Q421,422	2SC2412KT96	Transistor	
Q423	2SC3837KT47	Transistor	
Q424	2SC2412KT96	Transistor	
Q425,426	2SA1037-QRS	Transistor	
Q427,501	2SC2412KT96	Transistor	
Q502-506	2SC2412KT96	Transistor	
Q507	2SA1037-QRS	Transistor	
Q601-605	2SK209-GR	Transistor	
Q801-805	2SC2412KT96	Transistor	
Q806	2SC2411	Transistor	
Q807	2SC2412KT96	Transistor	
Q808	2SA1037-QRS	Transistor	
Q901	2SC2411	Transistor	
Q902	2SA1037-QRS	Transistor	
Q903	XN4501	Transistor	
Q904	2SC2412KT96	Transistor	
Q905	XN4401	Transistor	
Q906	2SA1037-QRS	Transistor	
Q907,908	XN4401	Transistor	
D1-8	YWHVU359TRF	Diode	
D101,201	YWDA204K	Diode	
D301,401	YWDA204K	Diode	
D601-610	MA372	Diode	
D801,802	YWDA204K	Diode	
R1-4	YF2116271JT	Carbon	270 ohms 1/10W
R5-8	YF2116221JT	Carbon	220 ohms 1/10W
R9-12	YWR1220Q750D	Metal	75 ohms
R13	ERJ3GEY0R00	Carbon	0 ohms 1/16W
R14	YF2116332JT	Carbon	3.3K ohms 1/10W
R15,16	YF2116104JT	Carbon	100K ohms 1/10W
R17	YF2116224JT	Carbon	220K ohms 1/10W
R18	YW2116105JT	Carbon	1M ohms 1/10W
R19	YF2116112JT	Carbon	1.1K ohms 1/10W
R20	YF2116621JT	Carbon	620 ohms 1/10W
R21,22	ERJ6GEYJ102	Carbon	1K ohms 1/10W
R23	YF2116621JT	Carbon	620 ohms 1/10W
R24,25	ERJ6GEYJ102	Carbon	1K ohms 1/10W
R26	YW2116105JT	Carbon	1M ohms 1/10W
R27,28	YF2116104JT	Carbon	100K ohms 1/10W

REF. NO.	PART NO.	DESCRIPTION		REF. NO.	PART NO.	DESCRIPTION	
R29	YF2116332JT	Carbon	3.3K ohms 1/10W	R144	YF2116271JT	Carbon	270 ohms 1/10W
R30	YF2116112JT	Carbon	1.1K ohms 1/10W	R145	ERJ6GEYJ102	Carbon	1K ohms 1/10W
R31	YF2116224JT	Carbon	220K ohms 1/10W	R146	YF2116272JT	Carbon	2.7K ohms 1/10W
R32-51	ERJ3GEYJ391	Carbon	390 ohms 1/16W	R147	ERJ6GEYJ103	Carbon	10K ohms 1/10W
R52	ERJ3GEY0R00	Carbon	0 ohms 1/16W	R148	YF2116222GT	Carbon	2.2K ohms 1/10W
R53	YF2116332JT	Carbon	3.3K ohms 1/10W	R149-151	ERJ6GEYJ102	Carbon	1K ohms 1/10W
R54,55	YF2116104JT	Carbon	100K ohms 1/10W	R152	YF2116101JT	Carbon	100 ohms 1/10W
R56	YF2116224JT	Carbon	220K ohms 1/10W	R153	YF2116683GT	Carbon	68K ohms 1/10W
R57	YW2116105JT	Carbon	1M ohms 1/10W	R154	YF2116104JT	Carbon	100K ohms 1/10W
R58	YF2116112JT	Carbon	1.1K ohms 1/10W	R155	YF2116331JT	Carbon	330 ohms 1/10W
R59	YF2116621JT	Carbon	620 ohms 1/10W	R156	YF2116332JT	Carbon	3.3K ohms 1/10W
R60,61	ERJ6GEYJ102	Carbon	1K ohms 1/10W	R157	YF2116331JT	Carbon	330 ohms 1/10W
R62	YF2116621JT	Carbon	620 ohms 1/10W	R158	YF2116272JT	Carbon	2.7K ohms 1/10W
R63,64	ERJ6GEYJ102	Carbon	1K ohms 1/10W	R159	ERJ6GEYJ102	Carbon	1K ohms 1/10W
R65	YW2116105JT	Carbon	1M ohms 1/10W	R161	YW2116182JT	Carbon	1.8K ohms 1/10W
R66,67	YF2116104JT	Carbon	100K ohms 1/10W	R162	YF2116132JT	Carbon	1.3K ohms 1/10W
R68	YF2116332JT	Carbon	3.3K ohms 1/10W	R163	YF2116331JT	Carbon	330 ohms 1/10W
R69	YF2116112JT	Carbon	1.1K ohms 1/10W	R164	ERJ6GEY0R00	Carbon	1 ohms 1/10W
R70	YF2116224JT	Carbon	220K ohms 1/10W	R165	ERJ6GEYJ102	Carbon	1K ohms 1/10W
R71-90	ERJ3GEYJ391	Carbon	390 ohms 1/16W	R167	YF2116272JT	Carbon	2.7K ohms 1/10W
R101	YF2116222GT	Carbon	2.2K ohms 1/10W	R168	YF2116222GT	Carbon	2.2K ohms 1/10W
R102	ERJ6GEYJ102	Carbon	1K ohms 1/10W	R169	YF2116363JT	Carbon	36K ohms 1/10W
R103	YF2116222GT	Carbon	2.2K ohms 1/10W	R170	ERJ6GEYJ103	Carbon	10K ohms 1/10W
R104,105	YWR1220P102D	Metal	1K ohms	R171	YW2116182JT	Carbon	1.8K ohms 1/10W
R106	ERJ6GEYJ472	Carbon	4.7K ohms 1/16W	R172	YF2116511JT	Carbon	510 ohms 1/10W
R107	YF2116221JT	Carbon	220 ohms 1/10W	R173	YF2116361JT	Carbon	360 ohms 1/10W
R109	YF2116101JT	Carbon	100 ohms 1/10W	R174	YF2116222GT	Carbon	2.2K ohms 1/10W
R110	YF2116332JT	Carbon	3.3K ohms 1/10W	R175	YW2116275J	Carbon	2.7K ohms 1/10W
R111	ERJ6GEYJ472	Carbon	4.7K ohms 1/16W	R177,178	YW2116105JT	Carbon	1M ohms 1/10W
R112	YF2116101JT	Carbon	100 ohms 1/10W	R179	YF2116101JT	Carbon	100 ohms 1/10W
R113	YF2116332JT	Carbon	3.3K ohms 1/10W	R180	YF2116154JT	Carbon	150K ohms 1/10W
R114,115	ERJ6GEYJ472	Carbon	4.7K ohms 1/16W	R181	YF2116222GT	Carbon	2.2K ohms 1/10W
R116	YF2116272JT	Carbon	2.7K ohms 1/10W	R182	ERJ6GEYJ223	Carbon	22K ohms 1/10W
R117	YF2116332JT	Carbon	3.3K ohms 1/10W	R183	YF2116104JT	Carbon	100K ohms 1/10W
R118,120	ERJ6GEYJ102	Carbon	1K ohms 1/10W	R184	YF2116471JT	Carbon	470 ohms 1/10W
R121	YF2116222GT	Carbon	2.2K ohms 1/10W	R185	YF2116331JT	Carbon	330 ohms 1/10W
R122,123	ERJ6GEY0R00	Carbon	1 ohms 1/10W	R186	ERJ6GEYJ223	Carbon	22K ohms 1/10W
R124	YF2116331JT	Carbon	330 ohms 1/10W	R189	ERJ6GEY0R00	Carbon	1 ohms 1/10W
R125	ERJ6GEY0R00	Carbon	1 ohms 1/10W	R201	YF2116222GT	Carbon	2.2K ohms 1/10W
R126,127	R1220P621D	Metal	620 ohms	R202	ERJ6GEYJ102	Carbon	1K ohms 1/10W
R128	ERJ6GEYJ102	Carbon	1K ohms 1/10W	R203	YF2116222GT	Carbon	2.2K ohms 1/10W
R129	YF2116432JT	Carbon	4.3K ohms 1/10W	R204,205	YWR1220P102D	Metal	1K ohms
R130,133	ERJ6GEYJ102	Carbon	1K ohms 1/10W	R206	ERJ6GEYJ472	Carbon	4.7K ohms 1/16W
R134	YF2116821GT	Carbon	820 ohms 1/10W	R207	YF2116221JT	Carbon	220 ohms 1/10W
R135	ERJ6GEYJ102	Carbon	1K ohms 1/10W	R209	YF2116101JT	Carbon	100 ohms 1/10W
R136	YF2116101JT	Carbon	100 ohms 1/10W	R210	YF2116332JT	Carbon	3.3K ohms 1/10W
R137	ERJ6GEYJ103	Carbon	10K ohms 1/10W	R211	ERJ6GEYJ472	Carbon	4.7K ohms 1/16W
R141	YF2116151JT	Carbon	150 ohms 1/10W	R212	YF2116101JT	Carbon	100 ohms 1/10W
R142	YF2116820JT	Carbon	82 ohms 1/10W	R213	YF2116332JT	Carbon	3.3K ohms 1/10W
R143	ERJ6GEYJ472	Carbon	4.7K ohms 1/16W	R214,215	ERJ6GEYJ472	Carbon	4.7K ohms 1/16W

REF. NO.	PART NO.	DESCRIPTION		REF. NO.	PART NO.	DESCRIPTION	
R216	YF2116272JT	Carbon	2.7K ohms 1/10W	R282	ERJ6GEYJ223	Carbon	22K ohms 1/10W
R217	YF2116332JT	Carbon	3.3K ohms 1/10W	R283	YF2116104JT	Carbon	100K ohms 1/10W
R218,220	ERJ6GEYJ102	Carbon	1K ohms 1/10W	R284	YF2116471JT	Carbon	470 ohms 1/10W
R221	YF2116222GT	Carbon	2.2K ohms 1/10W	R285	YF2116331JT	Carbon	330 ohms 1/10W
R222,223	ERJ6GEY0R00	Carbon	0 ohms 1/10W	R286	ERJ6GEYJ223	Carbon	22K ohms 1/10W
R224	YF2116331JT	Carbon	330 ohms 1/10W	R289	ERJ6GEY0R00	Carbon	1 ohms 1/10W
R225	ERJ6GEY0R00	Carbon	0 ohms 1/10W	R301	YF2116222GT	Carbon	2.2K ohms 1/10W
R226,227	R1220P621D	Metal	620 ohms	R302	ERJ6GEYJ102	Carbon	1K ohms 1/10W
R228	ERJ6GEYJ102	Carbon	1K ohms 1/10W	R303	YF2116222GT	Carbon	2.2K ohms 1/10W
R229	YF2116432JT	Carbon	4.3K ohms 1/10W	R304,305	YWR1220P102D	Metal	1K ohms
R230,233	ERJ6GEYJ102	Carbon	1K ohms 1/10W	R306	ERJ6GEYJ472	Carbon	4.7K ohms 1/16W
R234	YF2116821GT	Carbon	820 ohms 1/10W	R307	YF2116221JT	Carbon	220 ohms 1/10W
R235	ERJ6GEYJ102	Carbon	1K ohms 1/10W	R309	YF2116101JT	Carbon	100 ohms 1/10W
R236	YF2116101JT	Carbon	100 ohms 1/10W	R310	YF2116332JT	Carbon	3.3K ohms 1/10W
R237	ERJ6GEYJ103	Carbon	10K ohms 1/10W	R311	ERJ6GEYJ472	Carbon	4.7K ohms 1/16W
R241	YF2116151JT	Carbon	150 ohms 1/10W	R312	YF2116101JT	Carbon	100 ohms 1/10W
R242	YF2116820JT	Carbon	82 ohms 1/10W	R313	YF2116332JT	Carbon	3.3K ohms 1/10W
R243	ERJ6GEYJ472	Carbon	4.7K ohms 1/16W	R314,315	ERJ6GEYJ472	Carbon	4.7K ohms 1/16W
R244	YF2116271JT	Carbon	270 ohms 1/10W	R316	YF2116272JT	Carbon	2.7K ohms 1/10W
R245	ERJ6GEYJ102	Carbon	1K ohms 1/10W	R317	YF2116332JT	Carbon	3.3K ohms 1/10W
R246	YF2116272JT	Carbon	2.7K ohms 1/10W	R318,320	ERJ6GEYJ102	Carbon	1K ohms 1/10W
R247	ERJ6GEYJ103	Carbon	10K ohms 1/10W	R321	YF2116222GT	Carbon	2.2K ohms 1/10W
R248	YF2116222GT	Carbon	2.2K ohms 1/10W	R322,323	ERJ6GEY0R00	Carbon	1 ohms 1/10W
R249-251	ERJ6GEYJ102	Carbon	1K ohms 1/10W	R324	YF2116331JT	Carbon	330 ohms 1/10W
R252	YF2116101JT	Carbon	100 ohms 1/10W	R325	ERJ6GEY0R00	Carbon	1 ohms 1/10W
R253	YF2116683GT	Carbon	68K ohms 1/10W	R326,327	R1220P621D	Metal	620 ohms
R254	YF2116104JT	Carbon	100K ohms 1/10W	R328	ERJ6GEYJ102	Carbon	1K ohms 1/10W
R255	YF2116331JT	Carbon	330 ohms 1/10W	R329	YF2116432JT	Carbon	4.3K ohms 1/10W
R256	YF2116332JT	Carbon	3.3K ohms 1/10W	R330,333	ERJ6GEYJ102	Carbon	1K ohms 1/10W
R257	YF2116331JT	Carbon	330 ohms 1/10W	R334	YF2116821GT	Carbon	820 ohms 1/10W
R258	YF2116272JT	Carbon	2.7K ohms 1/10W	R335	ERJ6GEYJ102	Carbon	1K ohms 1/10W
R259	ERJ6GEYJ102	Carbon	1K ohms 1/10W	R336	YF2116101JT	Carbon	100 ohms 1/10W
R261	YW2116182JT	Carbon	1.8K ohms 1/10W	R337	ERJ6GEYJ103	Carbon	10K ohms 1/10W
R262	YF2116132JT	Carbon	1.3K ohms 1/10W	R341	YF2116151JT	Carbon	150 ohms 1/10W
R263	YF2116331JT	Carbon	330 ohms 1/10W	R342	YF2116820JT	Carbon	82 ohms 1/10W
R264	ERJ6GEY0R00	Carbon	1 ohms 1/10W	R343	ERJ6GEYJ472	Carbon	4.7K ohms 1/16W
R265	ERJ6GEYJ102	Carbon	1K ohms 1/10W	R344	YF2116271JT	Carbon	270 ohms 1/10W
R267	YF2116272JT	Carbon	2.7K ohms 1/10W	R345	ERJ6GEYJ102	Carbon	1K ohms 1/10W
R268	YF2116222GT	Carbon	2.2K ohms 1/10W	R346	YF2116272JT	Carbon	2.7K ohms 1/10W
R269	YF2116363JT	Carbon	36K ohms 1/10W	R347	ERJ6GEYJ103	Carbon	10K ohms 1/10W
R270	ERJ6GEYJ103	Carbon	10K ohms 1/10W	R348	YF2116222GT	Carbon	2.2K ohms 1/10W
R271	YW2116182JT	Carbon	1.8K ohms 1/10W	R349-351	ERJ6GEYJ102	Carbon	1K ohms 1/10W
R272	YF2116511JT	Carbon	510 ohms 1/10W	R352	YF2116101JT	Carbon	100 ohms 1/10W
R273	YF2116361JT	Carbon	360 ohms 1/10W	R353	YF2116683GT	Carbon	68K ohms 1/10W
R274	YF2116222GT	Carbon	2.2K ohms 1/10W	R354	YF2116104JT	Carbon	100K ohms 1/10W
R275	YW2116275J	Carbon	2.7K ohms 1/10W	R355	YF2116331JT	Carbon	330 ohms 1/10W
R277,278	YW2116105JT	Carbon	1M ohms 1/10W	R356	YF2116332JT	Carbon	3.3K ohms 1/10W
R279	YF2116101JT	Carbon	100 ohms 1/10W	R357	YF2116331JT	Carbon	330 ohms 1/10W
R280	YF2116154JT	Carbon	150K ohms 1/10W	R358	YF2116272JT	Carbon	2.7K ohms 1/10W
R281	YF2116222GT	Carbon	2.2K ohms 1/10W	R359	ERJ6GEYJ102	Carbon	1K ohms 1/10W

REF. NO.	PART NO.	DESCRIPTION	
R361	YW2116182JT	Carbon	1.8K ohms 1/10W
R362	YF2116132JT	Carbon	1.3K ohms 1/10W
R363	YF2116331JT	Carbon	330 ohms 1/10W
R364	ERJ6GEY0R00	Carbon	1 ohms 1/10W
R365	ERJ6GEYJ102	Carbon	1K ohms 1/10W
R367	YF2116272JT	Carbon	2.7K ohms 1/10W
R368	YF2116222GT	Carbon	2.2K ohms 1/10W
R369	YF2116363JT	Carbon	36K ohms 1/10W
R370	ERJ6GEYJ103	Carbon	10K ohms 1/10W
R371	YW2116182JT	Carbon	1.8K ohms 1/10W
R372	YF2116511JT	Carbon	510 ohms 1/10W
R373	YF2116361JT	Carbon	360 ohms 1/10W
R374	YF2116222GT	Carbon	2.2K ohms 1/10W
R375	YW2116275J	Carbon	2.7K ohms 1/10W
R377,378	YW2116105JT	Carbon	1M ohms 1/10W
R379	YF2116101JT	Carbon	100 ohms 1/10W
R380	YF2116154JT	Carbon	150K ohms 1/10W
R381	YF2116222GT	Carbon	2.2K ohms 1/10W
R382	ERJ6GEYJ223	Carbon	22K ohms 1/10W
R383	YF2116104JT	Carbon	100K ohms 1/10W
R384	YF2116471JT	Carbon	470 ohms 1/10W
R385	YF2116331JT	Carbon	330 ohms 1/10W
R386	ERJ6GEYJ223	Carbon	22K ohms 1/10W
R389	ERJ6GEY0R00	Carbon	1 ohms 1/10W
R401	YF2116222GT	Carbon	2.2K ohms 1/10W
R402	ERJ6GEYJ102	Carbon	1K ohms 1/10W
R403	YF2116222GT	Carbon	2.2K ohms 1/10W
R404,405	YWR1220P102D	Metal	1K ohms
R406	ERJ6GEYJ472	Carbon	4.7K ohms 1/16W
R407	YF2116221JT	Carbon	220 ohms 1/10W
R409	YF2116101JT	Carbon	100 ohms 1/10W
R410	YF2116332JT	Carbon	3.3K ohms 1/10W
R411	ERJ6GEYJ472	Carbon	4.7K ohms 1/16W
R412	YF2116101JT	Carbon	100 ohms 1/10W
R413	YF2116332JT	Carbon	3.3K ohms 1/10W
R414,415	ERJ6GEYJ472	Carbon	4.7K ohms 1/16W
R416	YF2116272JT	Carbon	2.7K ohms 1/10W
R417	YF2116332JT	Carbon	3.3K ohms 1/10W
R418,420	ERJ6GEYJ102	Carbon	1K ohms 1/10W
R421	YF2116222GT	Carbon	2.2K ohms 1/10W
R422,423	ERJ6GEY0R00	Carbon	1 ohms 1/10W
R424	YF2116331JT	Carbon	330 ohms 1/10W
R425	ERJ6GEY0R00	Carbon	1 ohms 1/10W
R426,427	R1220P621D	Metal	620 ohms
R428	ERJ6GEYJ102	Carbon	1K ohms 1/10W
R429	YF2116432JT	Carbon	4.3K ohms 1/10W
R430,433	ERJ6GEYJ102	Carbon	1K ohms 1/10W
R434	YF2116821GT	Carbon	820 ohms 1/10W
R435	ERJ6GEYJ102	Carbon	1K ohms 1/10W
R436	YF2116101JT	Carbon	100 ohms 1/10W

REF. NO.	PART NO.	DESCRIPTION	
R437	ERJ6GEYJ103	Carbon	10K ohms 1/10W
R441	YF2116151JT	Carbon	150 ohms 1/10W
R442	YF2116820JT	Carbon	82 ohms 1/10W
R443	ERJ6GEYJ472	Carbon	4.7K ohms 1/16W
R444	YF2116271JT	Carbon	270 ohms 1/10W
R445	ERJ6GEYJ102	Carbon	1K ohms 1/10W
R446	YF2116272JT	Carbon	2.7K ohms 1/10W
R447	ERJ6GEYJ103	Carbon	10K ohms 1/10W
R448	YF2116222GT	Carbon	2.2K ohms 1/10W
R449-451	ERJ6GEYJ102	Carbon	1K ohms 1/10W
R452	YF2116101JT	Carbon	100 ohms 1/10W
R453	YF2116683GT	Carbon	68K ohms 1/10W
R454	YF2116104JT	Carbon	100K ohms 1/10W
R455	YF2116331JT	Carbon	330 ohms 1/10W
R456	YF2116332JT	Carbon	3.3K ohms 1/10W
R457	YF2116331JT	Carbon	330 ohms 1/10W
R458	YF2116272JT	Carbon	2.7K ohms 1/10W
R459	ERJ6GEYJ102	Carbon	1K ohms 1/10W
R461	YW2116182JT	Carbon	1.8K ohms 1/10W
R462	YF2116132JT	Carbon	1.3K ohms 1/10W
R463	YF2116331JT	Carbon	330 ohms 1/10W
R464	ERJ6GEY0R00	Carbon	1 ohms 1/10W
R465	ERJ6GEYJ102	Carbon	1K ohms 1/10W
R467	YF2116272JT	Carbon	2.7K ohms 1/10W
R468	YF2116222GT	Carbon	2.2K ohms 1/10W
R469	YF2116363JT	Carbon	36K ohms 1/10W
R470	ERJ6GEYJ103	Carbon	10K ohms 1/10W
R471	YW2116182JT	Carbon	1.8K ohms 1/10W
R472	YF2116511JT	Carbon	510 ohms 1/10W
R473	YF2116361JT	Carbon	360 ohms 1/10W
R474	YF2116222GT	Carbon	2.2K ohms 1/10W
R475	YW2116275J	Carbon	2.7K ohms 1/10W
R477,478	YW2116105JT	Carbon	1M ohms 1/10W
R479	YF2116101JT	Carbon	100 ohms 1/10W
R480	YF2116154JT	Carbon	150K ohms 1/10W
R481	YF2116222GT	Carbon	2.2K ohms 1/10W
R482	ERJ6GEYJ223	Carbon	22K ohms 1/10W
R483	YF2116104JT	Carbon	100K ohms 1/10W
R484	YF2116471JT	Carbon	470 ohms 1/10W
R485	YF2116331JT	Carbon	330 ohms 1/10W
R486	ERJ6GEYJ223	Carbon	22K ohms 1/10W
R489	ERJ6GEY0R00	Carbon	1 ohms 1/10W
R501	YF2116222GT	Carbon	2.2K ohms 1/10W
R502	ERJ6GEYJ102	Carbon	1K ohms 1/10W
R503	YWR1220P102D	Metal	1K ohms
R504	YF2116101JT	Carbon	100 ohms 1/10W
R505	YFR1220P222D	Metal	2.2K ohms
R506	ERJ6GEYJ472	Carbon	4.7K OHMS 1/16W
R507	YF2116560JT	Carbon	56 ohms 1/10W
R508	YF2116222GT	Carbon	2.2K ohms 1/10W

REF. NO.	PART NO.	DESCRIPTION		REF. NO.	PART NO.	DESCRIPTION	
R509	YF2116123JT	Carbon	12K ohms 1/10W	R657	ERJ6GEY0R00	Carbon	1 ohms 1/10W
R510	YF2116752JT	Carbon	7.5K ohms 1/10W	R658	YF2116221JT	Carbon	220 ohms 1/10W
R511	YF2116332JT	Carbon	3.3K ohms 1/10W	R659	YF2116332JT	Carbon	3.3K ohms 1/10W
R512	YF2116101JT	Carbon	100 ohms 1/10W	R661	ERJ6GEYJ102	Carbon	1K ohms 1/10W
R513	ERJ6GEYJ102	Carbon	1K ohms 1/10W	R662	YF2116332JT	Carbon	3.3K ohms 1/10W
R514	YF2116471JT	Carbon	470 ohms 1/10W	R663,664	ERJ6GEYJ103	Carbon	10K ohms 1/10W
R515	YF2116112JT	Carbon	1.1K ohms 1/10W	R665	YW2116105JT	Carbon	1M ohms 1/10W
R516	YF2116392JT	Carbon	3.9K ohms 1/10W	R666	YF2116332JT	Carbon	3.3K ohms 1/10W
R517,518	YW2116242JT	Carbon	2.4K ohms 1/10W	R668	ERJ6GEYJ102	Carbon	1K ohms 1/10W
R519	ERJ6GEYJ223	Carbon	22K ohms 1/10W	R669	YF2116332JT	Carbon	3.3K ohms 1/10W
R520	YW2116182JT	Carbon	1.8K ohms 1/10W	R670,671	ERJ6GEYJ103	Carbon	10K ohms 1/10W
R521	YF2116332JT	Carbon	3.3K ohms 1/10W	R672	YW2116105JT	Carbon	1M ohms 1/10W
R522,523	ERJ6GEYJ102	Carbon	1K ohms 1/10W	R673	ERJ6GEY0R00	Carbon	1 ohms 1/10W
R524	YF2116101JT	Carbon	100 ohms 1/10W	R674	YF2116221JT	Carbon	220 ohms 1/10W
R601	ERJ6GEY0R00	Carbon	1 ohms 1/10W	R675	YF2116201JT	Carbon	200 ohms 1/10W
R602	YF2116221JT	Carbon	220 ohms 1/10W	R676	ERJ6GEYJ103	Carbon	10K ohms 1/10W
R603	YF2116332JT	Carbon	3.3K ohms 1/10W	R677	ERJ6GEYJ100	Carbon	10 ohms 1/10W
R605	ERJ6GEYJ102	Carbon	1K ohms 1/10W	R678,679	ERJ3GEY0R00	Carbon	0 ohms 1/16W
R606	YF2116332JT	Carbon	3.3K ohms 1/10W	R680	YF2116201JT	Carbon	200 ohms 1/10W
R607,608	ERJ6GEYJ103	Carbon	10K ohms 1/10W	R681	ERJ6GEYJ103	Carbon	10K ohms 1/10W
R609	YW2116105JT	Carbon	1M ohms 1/10W	R682	ERJ6GEYJ100	Carbon	10 ohms 1/10W
R610	YF2116332JT	Carbon	3.3K ohms 1/10W	R683,684	ERJ3GEYJ103	Carbon	10K ohms 1/16W
R612	ERJ6GEYJ102	Carbon	1K ohms 1/10W	R685	ERJ6GEY0R00	Carbon	1 ohms 1/10W
R613	YF2116332JT	Carbon	3.3K ohms 1/10W	R686	ERJ3GEY0R00	Carbon	0 ohms 1/16W
R614,615	ERJ6GEYJ103	Carbon	10K ohms 1/10W	R687	ERJ3GEYJ101	Carbon	100 ohms 1/16W
R616	YW2116105JT	Carbon	1M ohms 1/10W	R688,689	ERJ3GEYJ103	Carbon	10K ohms 1/16W
R617	ERJ6GEY0R00	Carbon	1 ohms 1/10W	R690-693	ERJ3GEYJ101	Carbon	100 ohms 1/16W
R618	YF2116221JT	Carbon	220 ohms 1/10W	R694	YF2116151JT	Carbon	150 ohms 1/10W
R619	YF2116201JT	Carbon	200 ohms 1/10W	R701	YF2116121JT	Carbon	120 ohms 1/10W
R620	ERJ6GEYJ103	Carbon	10K ohms 1/10W	R702	ERJ6GEYJ103	Carbon	10K ohms 1/10W
R621	ERJ6GEYJ100	Carbon	10 ohms 1/10W	R704	ERJ6GEYJ223	Carbon	22K ohms 1/10W
R622	ERJ6GEYJ103	Carbon	10K ohms 1/10W	R705	ERJ6GEY0R00	Carbon	1 ohms 1/10W
R623	ERJ3GEY0R00	Carbon	0 ohms 1/16W	R706	ERJ6GEYJ223	Carbon	22K ohms 1/10W
R624	ERJ6GEYJ103	Carbon	10K ohms 1/10W	R707	YF2116473GT	Carbon	47K ohms 1/10W
R625	YF2116201JT	Carbon	200 ohms 1/10W	R708	ERJ6GEYJ103	Carbon	10K ohms 1/10W
R626	ERJ6GEYJ100	Carbon	10 ohms 1/10W	R709	ERJ6GEYJ102	Carbon	1K ohms 1/10W
R627,628	ERJ3GEYJ103	Carbon	10K ohms 1/16W	R710-715	YF2116121JT	Carbon	120 ohms 1/10W
R629,630	ERJ3GEY0R00	Carbon	0 ohms 1/16W	R716,717	YF2116561JT	Carbon	560 ohms 1/10W
R634	YW2116105JT	Carbon	1M ohms 1/10W	R718-723	YF2116473GT	Carbon	47K ohms 1/10W
R635	ERJ3GEYJ101	Carbon	100 ohms 1/16W	R730-761	ERJ3GEYJ101	Carbon	100 ohms 1/16W
R638	YF2116332JT	Carbon	3.3K ohms 1/10W	R770,771	ERJ3GEYJ101	Carbon	100 ohms 1/16W
R639	ERJ6GEYJ223	Carbon	22K ohms 1/10W	R780,781	ERJ3GEYJ101	Carbon	100 ohms 1/16W
R640	YF2116332JT	Carbon	3.3K ohms 1/10W	R801	YWR1220P242D	Metal	2.4K ohms
R641	ERJ6GEYJ103	Carbon	10K ohms 1/10W	R802	YWR1220P122D	Metal	1.2K ohms
R642	YW2116105JT	Carbon	1M ohms 1/10W	R803	YWR1220P242D	Metal	2.4K ohms
R643	ERJ6GEYJ103	Carbon	10K ohms 1/10W	R804	YWR1220P122D	Metal	1.2K ohms
R644	ERJ3GEYJ103	Carbon	10K ohms 1/16W	R805	YWR1220P242D	Metal	2.4K ohms
R645	YF2116101JT	Carbon	100 ohms 1/10W	R806	YWR1220P122D	Metal	1.2K ohms
R646,647	ERJ3GEYJ103	Carbon	10K ohms 1/16W	R807	YWR1220P242D	Metal	2.4K ohms
R648-656	ERJ3GEYJ101	Carbon	100 ohms 1/16W	R808	YWR1220P122D	Metal	1.2K ohms

REF. NO.	PART NO.	DESCRIPTION	
R809	YWR1220P242D	Metal	2.4K ohms
R810	YWR1220P122D	Metal	1.2K ohms
R811	YWR1220P242D	Metal	2.4K ohms
R812	YWR1220P122D	Metal	1.2K ohms
R813	YWR1220P242D	Metal	2.4K ohms
R814	YWR1220P122D	Metal	1.2K ohms
R815	YWR1220P242D	Metal	2.4K ohms
R816	YWR1220P122D	Metal	1.2K ohms
R817	YF2116332JT	Carbon	3.3K ohms 1/10W
R818	YWR1220P242D	Metal	2.4K ohms
R819	YWR1220P122D	Metal	1.2K ohms
R820	YWR1220P242D	Metal	2.4K ohms
R821	YWR1220P122D	Metal	1.2K ohms
R822	YWR1220P242D	Metal	2.4K ohms
R823	YWR1220P122D	Metal	1.2K ohms
R824	YWR1220P242D	Metal	2.4K ohms
R825	YWR1220P122D	Metal	1.2K ohms
R826	YWR1220P242D	Metal	2.4K ohms
R827	YWR1220P122D	Metal	1.2K ohms
R828	YWR1220P242D	Metal	2.4K ohms
R829	YWR1220P122D	Metal	1.2K ohms
R830	YWR1220P242D	Metal	2.4K ohms
R831	YWR1220P122D	Metal	1.2K ohms
R832	YWR1220P242D	Metal	2.4K ohms
R833	YWR1220P122D	Metal	1.2K ohms
R834	YF2116332JT	Carbon	3.3K ohms 1/10W
R835	YF2116621JT	Carbon	620 ohms 1/10W
R836	ERJ6GEY0R00	Carbon	1 ohms 1/10W
	YWR1220P182D	Metal	1.8K ohms
R837	YWR1220P752D	Metal	7.5K ohms
R838	YF2116751JT	Carbon	750 ohms 1/10W
R839	YF2116222GT	Carbon	2.2K ohms 1/10W
R840	YF2116272JT	Carbon	2.7K ohms 1/10W
R841	YF2116560JT	Carbon	56 ohms 1/10W
R842	YWR1220P122D	Metal	1.2K ohms
R843	YF2116471JT	Carbon	470 ohms 1/10W
R844	YF2116122JT	Carbon	1.2K ohms 1/10W
R845	YF2116560JT	Carbon	56 ohms 1/10W
R846	YF2116332JT	Carbon	3.3K ohms 1/10W
R847	YF2116682JT	Carbon	6.8K ohms 1/10W
R848	ERJ6GEYJ472	Carbon	4.7K ohms 1/16W
R849	YF2116271JT	Carbon	270 ohms 1/10W
R850	YF2116473GT	Carbon	47K ohms 1/10W
R851	YF2116302GT	Carbon	3K ohms 1/10W
R852	YF2116222GT	Carbon	2.2K ohms 1/10W
R854	YF2116202JT	Carbon	2K ohms 1/10W
R855	ERJ6GEYJ102	Carbon	1K ohms 1/10W
R856	YF2116272JT	Carbon	2.7K ohms 1/10W
R857	YWR1220P680D	Metal	68 ohms
R858	YWR1220P680D	Metal	68 ohms

REF. NO.	PART NO.	DESCRIPTION	
R859	YWR1220P122D	Metal	1.2K ohms
R901	YF2116563JT	Carbon	56K ohms 1/10W
R902	ERJ6GEYJ562	Carbon	5.6K ohms 1/10W
R903	ERJ6GEYJ393	Carbon	39K ohms 1/10W
R904,905	ERJ6GEYJ223	Carbon	22K ohms 1/10W
R906	ERJ6GEYJ393	Carbon	39K ohms 1/10W
R907	YF2116101JT	Carbon	100 ohms 1/10W
R908,909	ERJ6GEYJ103	Carbon	10K ohms 1/10W
R910	YF2116153JT	Carbon	15K ohms 1/10W
R911	ERJ6GEYJ103	Carbon	10K ohms 1/10W
R912	YF2116101JT	Carbon	100 ohms 1/10W
R913	YF2116104JT	Carbon	100K ohms 1/10W
R914	YF2116564JT	Carbon	560K ohms 1/10W
R915	YF2116153JT	Carbon	15K ohms 1/10W
R916,917	YF2116392JT	Carbon	3.9K ohms 1/10W
R918	YF2116333GT	Carbon	33K ohms 1/10W
R919	ERJ6GEYJ102	Carbon	1K ohms 1/10W
R920	ERJ6GEYJ223	Carbon	22K ohms 1/10W
R921	ERJ6GEYJ472	Carbon	4.7K ohms 1/16W
R922	YF2116333GT	Carbon	33K ohms 1/10W
R923	ERJ6GEYJ102	Carbon	1K ohms 1/10W
R924	ERJ6GEYJ223	Carbon	22K ohms 1/10W
R925	ERJ6GEYJ472	Carbon	4.7K ohms 1/16W
R926	YF2116392JT	Carbon	3.9K ohms 1/10W
R928	YF2116333GT	Carbon	33K ohms 1/10W
R929	ERJ6GEYJ102	Carbon	1K ohms 1/10W
R930	ERJ6GEYJ223	Carbon	22K ohms 1/10W
R931	ERJ6GEYJ472	Carbon	4.7K ohms 1/16W
R932,933	YF2116392JT	Carbon	3.9K ohms 1/10W
R934	YF2116333GT	Carbon	33K ohms 1/10W
R935	ERJ6GEYJ102	Carbon	1K ohms 1/10W
R936	ERJ6GEYJ223	Carbon	22K ohms 1/10W
R937	ERJ6GEYJ472	Carbon	4.7K ohms 1/16W
R938	YF2116333GT	Carbon	33K ohms 1/10W
R939	ERJ6GEYJ223	Carbon	22K ohms 1/10W
R940	ERJ6GEYJ472	Carbon	4.7K ohms 1/16W
R941	ERJ6GEYJ102	Carbon	1K ohms 1/10W
R942,943	YF2116392JT	Carbon	3.9K ohms 1/10W
R944	YF2116333GT	Carbon	33K ohms 1/10W
R945	ERJ6GEYJ102	Carbon	1K ohms 1/10W
R946	ERJ6GEYJ223	Carbon	22K ohms 1/10W
R947	ERJ6GEYJ472	Carbon	4.7K ohms 1/16W
R948	YF2116333GT	Carbon	33K ohms 1/10W
R949	ERJ6GEYJ102	Carbon	1K ohms 1/10W
R950	ERJ6GEYJ223	Carbon	22K ohms 1/10W
R951	ERJ6GEYJ472	Carbon	4.7K ohms 1/16W
VR101,103	EVM1DGA00B13	Variable Resistor	1K ohms
VR104	EVM1DSW30B14	Variable Resistor	10K ohms
VR201,203	EVM1DGA00B13	Variable Resistor	1K ohms
VR204	EVM1DSW30B14	Variable Resistor	10K ohms

REF. NO.	PART NO.	DESCRIPTION	
VR301,303	EVM1DGA00B13	Variable Resistor	1K ohms
VR304	EVM1DSW30B14	Variable Resistor	10K ohms
VR401,403	EVM1DGA00B13	Variable Resistor	1K ohms
VR404	EVM1DSW30B14	Variable Resistor	10K ohms
VR801	EVM1DGA00B53	Variable Resistor	5K ohms
VR802	EVM1DGA00B13	Variable Resistor	1K ohms
Z609-616	EXBV8V101J	Block Resistor	
C1-3	YF400104FZT	Ceramic	0.1 µF
C4	EEVHB0J101P	Electrolytic	100 µF 6.3V
C5	YF400104FZT	Ceramic	0.1 µF
C6	EEVHB0J101P	Electrolytic	100 µF 6.3V
C7,8	YF400104FZT	Ceramic	0.1 µF
C10	YF400471CHJT	Ceramic	470 pF
C12	YF400390CHJT	Ceramic	39 pF
C13	YF400471CHJT	Ceramic	470 pF
C14	YF400222XKT	Ceramic	2200 pF
C15	YW400393XKT	Ceramic	0.039 µF
C16-20	YF400104FZT	Ceramic	0.1 µF
C21	YF400471CHJT	Ceramic	470 pF
C22	YF400390CHJT	Ceramic	39 pF
C23	YF400471CHJT	Ceramic	470 pF
C26	YF400222XKT	Ceramic	2200 pF
C27	YW400393XKT	Ceramic	0.039 µF
C28	YF400104FZT	Ceramic	0.1 µF
C29	EEVHB0J101P	Electrolytic	100 µF 6.3V
C30-34	YF400104FZT	Ceramic	0.1 µF
C36	YF400471CHJT	Ceramic	470 pF
C38	YF400390CHJT	Ceramic	39 pF
C39	YF400471CHJT	Ceramic	470 pF
C40	YF400222XKT	Ceramic	2200 pF
C41	YW400393XKT	Ceramic	0.039 µF
C42-46	YF400104FZT	Ceramic	0.1 µF
C47	YF400471CHJT	Ceramic	470 pF
C48	YF400390CHJT	Ceramic	39 pF
C49	YF400471CHJT	Ceramic	470 pF
C52	YF400222XKT	Ceramic	2200 pF
C53	YW400393XKT	Ceramic	0.039 µF
C54	YF400104FZT	Ceramic	0.1 µF
C55	EEVHB0J101P	Electrolytic	100 µF 6.3V
C56-58	YF400104FZT	Ceramic	0.1 µF
C59,60	EEVHB0J101P	Electrolytic	100 µF 6.3V
C101	YW6CV1000GX	Electrolytic	1000 µF
C102	YF400101CHJT	Ceramic	100 pF
C103	YW400160CHJT	Ceramic	16 pF 50V
C104	YF400101CHJT	Ceramic	100 pF
C105	YF400470CHJT	Ceramic	47 pF
C106	YW400750CHJT	Ceramic	75 pF
C107	EEVHB0J101P	Electrolytic	100 µF 6.3V
C108	YF400104FZT	Ceramic	0.1 µF
C109	YW400105FZ	Ceramic	1 µF

REF. NO.	PART NO.	DESCRIPTION	
C110	EEVHB0J101P	Electrolytic	100 µF 6.3V
C112-114	YF400104FZT	Ceramic	0.1 µF
C116-118	YF400104FZT	Ceramic	0.1 µF
C119	YF400240CHJT	Ceramic	24 pF
C120	YW400361CHJT	Ceramic	360 pF
C121	YF400104FZT	Ceramic	0.1 µF
C122	YF400333XKT	Ceramic	0.033 µF
C123	EEVHB0J101P	Electrolytic	100 µF 6.3V
C124	YF400101CHJT	Ceramic	100 pF
C127,128	YF400104FZT	Ceramic	0.1 µF
C130	YW400102CHJT	Ceramic	1000pF
C132	EEVHB0J101P	Electrolytic	100 µF 6.3V
C133	YF400103XKT	Ceramic	0.01 µF
C134	YW400102CHJT	Ceramic	1000pF
C135-138	YF400104FZT	Ceramic	0.1 µF
C139	YF400563XKT	Ceramic	0.056 µF
C140	YF400560CHJT	Ceramic	56 pF
C141	YW400334FZ	Ceramic	0.33 µF
C142	YF400104FZT	Ceramic	0.1 µF
C144	YF400221CHJT	Ceramic	220 pF
C145,146	YF400104FZT	Ceramic	0.1 µF
C147	YF400560CHJT	Ceramic	56 pF
C148	YW400105FZ	Ceramic	1 µF
C149	YF400104FZT	Ceramic	0.1 µF
C151	YW400105FZ	Ceramic	1 µF
C152	YF400331CHJT	Ceramic	330 pF
C153	YF400102XKT	Ceramic	1000 pF
C154	YW400105FZ	Ceramic	1 µF
C155,156	YF400104FZT	Ceramic	0.1 µF
C157	YF400563XKT	Ceramic	0.056 µF
C158	YF400104FZT	Ceramic	0.1 µF
C159	YF400563XKT	Ceramic	0.056 µF
C160,161	YF400104FZT	Ceramic	0.1 µF
C187,188	YWR1220R434D	Metal	0.43 µF
C201	YW6CV1000GX	Electrolytic	1000 µF
C202	YF400101CHJT	Ceramic	100 pF
C203	YW400160CHJT	Ceramic	16 pF 50V
C204	YF400101CHJT	Ceramic	100 pF
C205	YF400470CHJT	Ceramic	47 pF
C206	YW400750CHJT	Ceramic	75 pF
C207	EEVHB0J101P	Electrolytic	100 µF 6.3V
C208	YF400104FZT	Ceramic	0.1 µF
C209	YW400105FZ	Ceramic	1 µF
C210	EEVHB0J101P	Electrolytic	100 µF 6.3V
C212-214	YF400104FZT	Ceramic	0.1 µF
C216-218	YF400104FZT	Ceramic	0.1 µF
C219	YF400240CHJT	Ceramic	24 pF
C220	YW400361CHJT	Ceramic	360 pF
C221	YF400104FZT	Ceramic	0.1 µF
C222	YF400333XKT	Ceramic	0.033 µF

REF. NO.	PART NO.	DESCRIPTION	
C223	EEVHB0J101P	Electrolytic	100 µF 6.3V
C224	YF400101CHJT	Ceramic	100 pF
C227,228	YF400104FZT	Ceramic	0.1 µF
C230	YW400102CHJT	Ceramic	1000pF
C232	EEVHB0J101P	Electrolytic	100 µF 6.3V
C233	YF400103XKT	Ceramic	0.01 µF
C234	YW400102CHJT	Ceramic	1000pF
C235-238	YF400104FZT	Ceramic	0.1 µF
C239	YF400563XKT	Ceramic	0.056 µF
C240	YF400560CHJT	Ceramic	56 pF
C241	YW400334FZ	Ceramic	0.33 µF
C242	YF400104FZT	Ceramic	0.1 µF
C244	YF400221CHJT	Ceramic	220 pF
C245,246	YF400104FZT	Ceramic	0.1 µF
C247	YF400560CHJT	Ceramic	56 pF
C248	YW400105FZ	Ceramic	1 µF
C249	YF400104FZT	Ceramic	0.1 µF
C251	YW400105FZ	Ceramic	1 µF
C252	YF400331CHJT	Ceramic	330 pF
C253	YF400102XKT	Ceramic	1000 pF
C254	YW400105FZ	Ceramic	1 µF
C255,256	YF400104FZT	Ceramic	0.1 µF
C301	YW6CV1000GX	Electrolytic	1000 µF
C302	YF400101CHJT	Ceramic	100 pF
C303	YW400160CHJT	Ceramic	16 pF 50V
C304	YF400101CHJT	Ceramic	100 pF
C305	YF400470CHJT	Ceramic	47 pF
C306	YW400750CHJT	Ceramic	75 pF
C307	EEVHB0J101P	Electrolytic	100 µF 6.3V
C308	YF400104FZT	Ceramic	0.1 µF
C309	YW400105FZ	Ceramic	1 µF
C310	EEVHB0J101P	Electrolytic	100 µF 6.3V
C312-314	YF400104FZT	Ceramic	0.1 µF
C316-318	YF400104FZT	Ceramic	0.1 µF
C319	YF400240CHJT	Ceramic	24 pF
C320	YW400361CHJT	Ceramic	360 pF
C321	YF400104FZT	Ceramic	0.1 µF
C322	YF400333XKT	Ceramic	0.033 µF
C323	EEVHB0J101P	Electrolytic	100 µF 6.3V
C324	YF400101CHJT	Ceramic	100 pF
C327,328	YF400104FZT	Ceramic	0.1 µF
C330	YW400102CHJT	Ceramic	1000 pF
C332	EEVHB0J101P	Electrolytic	100 µF 6.3V
C333	YF400103XKT	Ceramic	0.01 µF
C334	YW400102CHJT	Ceramic	1000pF
C335-338	YF400104FZT	Ceramic	0.1 µF
C339	YF400563XKT	Ceramic	0.056 µF
C340	YF400560CHJT	Ceramic	56 pF
C341	YW400334FZ	Ceramic	0.33 µF
C342	YF400104FZT	Ceramic	0.1 µF

REF. NO.	PART NO.	DESCRIPTION	
C344	YF400221CHJT	Ceramic	220 pF
C345,346	YF400104FZT	Ceramic	0.1 µF
C347	YF400560CHJT	Ceramic	56 pF
C348	YW400105FZ	Ceramic	1 µF
C349	YF400104FZT	Ceramic	0.1 µF
C351	YW400105FZ	Ceramic	1 µF
C352	YF400331CHJT	Ceramic	330 pF
C353	YF400102XKT	Ceramic	1000 pF
C354	YW400105FZ	Ceramic	1 µF
C355,356	YF400104FZT	Ceramic	0.1 µF
C357	YF400563XKT	Ceramic	0.056 µF
C358	YF400104FZT	Ceramic	0.1 µF
C359	YF400563XKT	Ceramic	0.056 µF
C360,361	YF400104FZT	Ceramic	0.1 µF
C387,388	YWR1220R434D	Metal	
C401	YW6CV1000GX	Electrolytic	1000 µF
C402	YF400101CHJT	Ceramic	100 pF
C403	YW400160CHJT	Ceramic	16 pF 50V
C404	YF400101CHJT	Ceramic	100 pF
C405	YF400470CHJT	Ceramic	47 pF
C406	YW400750CHJT	Ceramic	75 pF
C407	EEVHB0J101P	Electrolytic	100 µF 6.3V
C408	YF400104FZT	Ceramic	0.1 µF
C409	YW400105FZ	Ceramic	1 µF
C410	EEVHB0J101P	Electrolytic	100 µF 6.3V
C412-414	YF400104FZT	Ceramic	0.1 µF
C416-418	YF400104FZT	Ceramic	0.1 µF
C419	YF400240CHJT	Ceramic	24 pF
C420	YW400361CHJT	Ceramic	360 pF
C421	YF400104FZT	Ceramic	0.1 µF
C422	YF400333XKT	Ceramic	0.033 µF
C423	EEVHB0J101P	Electrolytic	100 µF 6.3V
C424	YF400101CHJT	Ceramic	100 pF
C427,428	YF400104FZT	Ceramic	0.1 µF
C430	YW400102CHJT	Ceramic	1000pF
C432	EEVHB0J101P	Electrolytic	100 µF 6.3V
C433	YF400103XKT	Ceramic	0.01 µF
C434	YW400102CHJT	Ceramic	1000pF
C435-438	YF400104FZT	Ceramic	0.1 µF
C439	YF400563XKT	Ceramic	0.056 µF
C440	YF400560CHJT	Ceramic	56 pF
C441	YW400334FZ	Ceramic	0.33 µF
C442	YF400104FZT	Ceramic	0.1 µF
C444	YF400221CHJT	Ceramic	220 pF
C445,446	YF400104FZT	Ceramic	0.1 µF
C447	YF400560CHJT	Ceramic	56 pF
C448	YW400105FZ	Ceramic	1 µF
C449	YF400104FZT	Ceramic	0.1 µF
C451	YW400105FZ	Ceramic	1 µF
C452	YF400331CHJT	Ceramic	330 pF

REF. NO.	PART NO.	DESCRIPTION	
C453	YF400102XKT	Ceramic	1000 pF
C454	YW400105FZ	Ceramic	1 µF
C455,456	YF400104FZT	Ceramic	0.1 µF
C501	EEVHB0J101P	Electrolytic	100 µF 6.3V
C502	YF400180CHJT	Ceramic	18 pF
C503	YW400105FZ	Ceramic	1 µF
C504	YF400563XKT	Ceramic	0.056 µF
C505	YF400104FZT	Ceramic	0.1 µF
C506	YF400101CHJT	Ceramic	100 pF
C507-509	YF400104FZT	Ceramic	0.1 µF
C511	YF400102XKT	Ceramic	1000 pF
C512	YF400104FZT	Ceramic	0.1 µF
C513	YW400105FZ	Ceramic	1 µF
C514	YF400472XKT	Ceramic	4700pF
C515	YF400104FZT	Ceramic	0.1 µF
C516	YF400103XKT	Ceramic	0.01 µF
C517,518	YF400150CHJT	Ceramic	15 pF
C519	YF400471CHJT	Ceramic	470 pF
C601	YF400104FZT	Ceramic	0.1 µF
C602	YF400104FZT	Ceramic	0.1 µF
C603	YF400103XKT	Ceramic	0.01 µF
C604	YF400331CHJT	Ceramic	330 pF
C605	YF400100CHJT	Ceramic	10 pF
C606,607	YF400331CHJT	Ceramic	330 pF
C608	YF400100CHJT	Ceramic	10 pF
C609	YF400104FZT	Ceramic	0.1 µF
C610	YF400103XKT	Ceramic	0.01 µF
C611	YF400331CHJT	Ceramic	330 pF
C612	YF400100CHJT	Ceramic	10 pF
C613,614	YF400331CHJT	Ceramic	330 pF
C615	YF400100CHJT	Ceramic	10 pF
C616	YF400103XKT	Ceramic	0.01 µF
C617,618	YF400104FZT	Ceramic	0.1 µF
C619	YF400103XKT	Ceramic	0.01 µF
C620-622	YF400104FZT	Ceramic	0.1 µF
C625	YF400331CHJT	Ceramic	330 pF
C626	YF400120CHJT	Ceramic	12 pF
C627	YF400221CHJT	Ceramic	220 pF
C629	YW400105FZ	Ceramic	1 µF
C630,631	YF400331CHJT	Ceramic	330 pF
C633	YF400300CHJT	Ceramic	30 pF
C634	YF400331CHJT	Ceramic	330 pF
C636-640	YF400104FZT	Ceramic	0.1 µF
C641	YW6CV1000GX	Electrolytic	1000 µF
C642	YF400104FZT	Ceramic	0.1 µF
C643	EEVHB0J101P	Electrolytic	100 µF 6.3V
C644-647	YF400104FZT	Ceramic	0.1 µF
C648	EEVHB0J101P	Electrolytic	100 µF 6.3V
C649-651	YF400104FZT	Ceramic	0.1 µF
C652	YF400104FZT	Ceramic	0.1 µF

REF. NO.	PART NO.	DESCRIPTION	
C653	YF400103XKT	Ceramic	0.01 µF
C654	YF400331CHJT	Ceramic	330 pF
C655	YF400100CHJT	Ceramic	10 pF
C656,657	YF400331CHJT	Ceramic	330 pF
C658	YF400100CHJT	Ceramic	10 pF
C659	YF400104FZT	Ceramic	0.1 µF
C660	YF400103XKT	Ceramic	0.01 µF
C661	YF400331CHJT	Ceramic	330 pF
C662	YF400100CHJT	Ceramic	10 pF
C663,664	YF400331CHJT	Ceramic	330 pF
C665	YF400100CHJT	Ceramic	10 pF
C666	YF400103XKT	Ceramic	0.01 µF
C667,668	YF400104FZT	Ceramic	0.1 µF
C669	YF400103XKT	Ceramic	0.01 µF
C670-672	YF400104FZT	Ceramic	0.1 µF
C674-678	YF400104FZT	Ceramic	0.1 µF
C679	EEVHA1A221P	Electrolytic	µF
C680,701	YF400104FZT	Ceramic	0.1 µF
C702	EEVHB0J101P	Electrolytic	100 µF 6.3V
C703,704	YF400300CHJT	Ceramic	30 pF
C705,706	YF400104FZT	Ceramic	0.1 µF
C707	YW400105FZ	Ceramic	1 µF
C708-716	YF400331CHJT	Ceramic	330 pF
C804	YF400101CHJT	Ceramic	100 pF
C805	YF400240CHJT	Ceramic	24 pF
C806	YW400361CHJT	Ceramic	360 pF
C807,809	EEVHB0J101P	Electrolytic	100 µF 6.3V
C810	YW400105FZ	Ceramic	1 µF
C811	YF400104FZT	Ceramic	0.1 µF
C812,814	EEVHB0J101P	Electrolytic	100 µF 6.3V
C813,816	YW6CV1000GX	Electrolytic	1000 µF
C815,901	YF400104FZT	Ceramic	0.1 µF
C902	YW400105FZ	Ceramic	1 µF
C903-905	YF400104FZT	Ceramic	0.1 µF
C906	YW400105FZ	Ceramic	1 µF
C907	YF400104FZT	Ceramic	0.1 µF
C908	YF400103XKT	Ceramic	0.01 µF
C909	YF400104FZT	Ceramic	0.1 µF
C910	YF400103XKT	Ceramic	0.01 µF
C911	YF400104FZT	Ceramic	0.1 µF
C912	YF400103XKT	Ceramic	0.01 µF
C913	YF400104FZT	Ceramic	0.1 µF
C914	YF400103XKT	Ceramic	0.01 µF
C915	YF400104FZT	Ceramic	0.1 µF
C916	YF400103XKT	Ceramic	0.01 µF
C917	YF400104FZT	Ceramic	0.1 µF
C918	YF400103XKT	Ceramic	0.01 µF
C919	YF400104FZT	Ceramic	0.1 µF
C920	YF400103XKT	Ceramic	0.01 µF
C921	EEVHB0J101P	Electrolytic	100 µF 6.3V

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REF. NO.	PART NO.	DESCRIPTION	
CT601	ECRJA020E11	Trimmer Capacitor	
L1	YWNL325R6J	Coil	5.6 µH
L2-6	YWNL328R2J	Coil	8.2 µH
L101	YWNL328R2J	Coil	8.2 µH
L102	YWNL32560J	Coil	56 µH
L103	YWNL32820J	Coil	82 µH
L104	YWNL32560J	Coil	56 µH
L105	YWNL323R9J	Coil	3.9 µH
L107,201	YWNL328R2J	Coil	8.2 µH
L202	YWNL32560J	Coil	56 µH
L203	YWNL32820J	Coil	82 µH
L204	YWNL32560J	Coil	56 µH
L205	YWNL323R9J	Coil	3.9 µH
L207,301	YWNL328R2J	Coil	8.2 µH
L302	YWNL32560J	Coil	56 µH
L303	YWNL32820J	Coil	82 µH
L304	YWNL32560J	Coil	56 µH
L305	YWNL323R9J	Coil	3.9 µH
L307,401	YWNL328R2J	Coil	8.2 µH
L402	YWNL32560J	Coil	56 µH
L403	YWNL32820J	Coil	82 µH
L404	YWNL32560J	Coil	56 µH
L405	YWNL323R9J	Coil	3.9 µH
L407	YWNL328R2J	Coil	8.2 µH
L601,602	YWNL325R6J	Coil	5.6 µH
L603	YWNL328R2J	Coil	8.2 µH
L604,605	YWNL325R6J	Coil	5.6 µH
L606-609	EIC4EJ011E	Coil	µH
L701	YWNL328R2J	Coil	8.2 µH
L801	YWNL32560J	Coil	56 µH
L802	YWNL323R9J	Coil	3.9 µH
L803,804	YWNL328R2J	Coil	8.2 µH
L901	YWNL328R2J	Coil	8.2 µH
L902-910	YWNL32101J	Coil	100 µH
L911	YWNL328R2J	Coil	8.2 µH
X701	YWCSA7.16MTZ	Oscillator	
X1-4	YWDX17R734	Crystal Oscillator	
X501	YWAT514R43	Crystal Oscillator	
X601	YWDX27R000	Crystal Oscillator	
X602	YWDX17R734	Crystal Oscillator	
CN1,2	YWP2297A	Connector	
CN601	YWB5BPHKS	Connector	
CN801	YWP2296	Connector	
BZ701	PKM22EPP4002	Buzzer	
CN701	YW530141010	Connector	
CN901	YWJBY25S1A3G	Connector	
TP2,5	YW32BM7R5	Test-pin	
TP601,602	YWRCT2125TPV	Test-pin	
TP604-607	YWRCT2125TPV	Test-pin	
TP610-612	YWRCT2125TPV	Test-pin	

REF. NO.	PART NO.	DESCRIPTION
TP611,612	YW32BM7R5	Test-pin

ACCESSORY PARTS / PACKAGING PARTS

M38		YWA2SA1756A3	Rack Mounting Brackets
M39		YWV5EA0505A3	Switch Protector
M40		XSB3+10FN	Rack Mounting Bracket Fixing Screws
M41	⚠	YWV8QA4909AN	Operating Instructions
M43		XZB26X40C05	Polyethylene Bag
M44		PE55X71C1A	Polyethylene Bag
M45		YWT050803	Polyethylene Bag
M46		YWT20X25C03	Polyethylene Bag
M47		PE20X35C03A	Polyethylene Bag
M48		YWV7SA2037A3	Bar Cord Label
M50		YWV9CA3754AN	Packaging Assy

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